THOMSON MULTI MEDIA

Brandt FERGUSON **SABA** **TELEFUNKEN** **THOMSON**

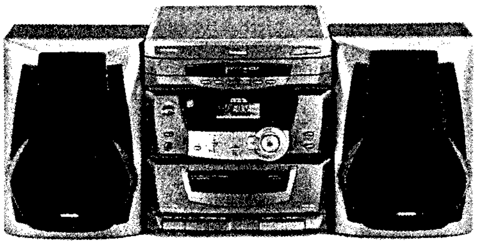
AUDIO ♫

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON VTCD 800 VTCD 810 VTCD 840

Version (PC*) : A

*PC : The version code is indicated either in the battery compartment or on the back of the unit - Ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC : Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - Il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - El código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

	Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Cassette radio recorder / compact disc Combiné radio cassette / CD CD-Radio Cassetten Portable Insieme radio cassette / CD Radio cassette / CD		↔ 280 mm ↕ 315 mm ⤢ 330 mm 7,5 kg
	Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	230 V ∿ 50Hz	**Nominal output power :** **Puissance nominale de sortie :** **Nennausgangsleistung :** **Potenza nominale di uscita :** **Potencia nominal de salida :**	2 x 4 W (rms)
	FM - MF : **MW - PO :** **LW - GO :**	87,5 - 108 MHz 522 - 1620 kHz 150 - 283 kHz	**Sensitivity :** **Sensibilité :** **FM - MF :** **Empfindlichkeit :** **MW - PO :** **Sensibilità :** **LW - GO :** **Sensibilidad :**	44, 7 µV (S/N = 50 dB) 1000 µV/m (S/N = 20 dB) 2500 µV/m (S/N = 20 dB)
	Stereo separation : **Diaphonie :** **Ubersprechdämpfung :** **Diafonía :** **Diafonia :**	30 dB (f = 1 kHz)	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	44/48 dB
	Wow and fluttter : **Fluctuations :** **Gleichlauf :** **Fluttuazioni :** **Fluctuaciones :**	0,35 %	▷ << ▶▶ >> << ◀◀ >>	4,76 cm/S C60 : 170 S
DAD	**Disc rotation speed :** **Vitesse de rotation du disque :** **CD-Drehgeschwindigkeit :** **Velocità di rotazione del disco :** **Velocidad de rotación del disco :**	200 → 500 tr/m	**Frequency response :** **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	100 Hz - 12 kHz (+3 dB)
	Dynamic range : **Gamme dynamique :** **Dynamikumfang :** **Dinamica :** **Dinámica :**	65 dB	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	70 dB

⚠

WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 814 80 - 0899 / 4,1M - CRKD1244 Print.

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CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

ATTENTION : Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.

VORSICHT BEI REPARATUREN : Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.

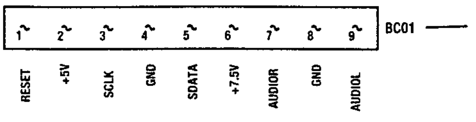
ATTENZIONE : Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.

IMPORTANTE : El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

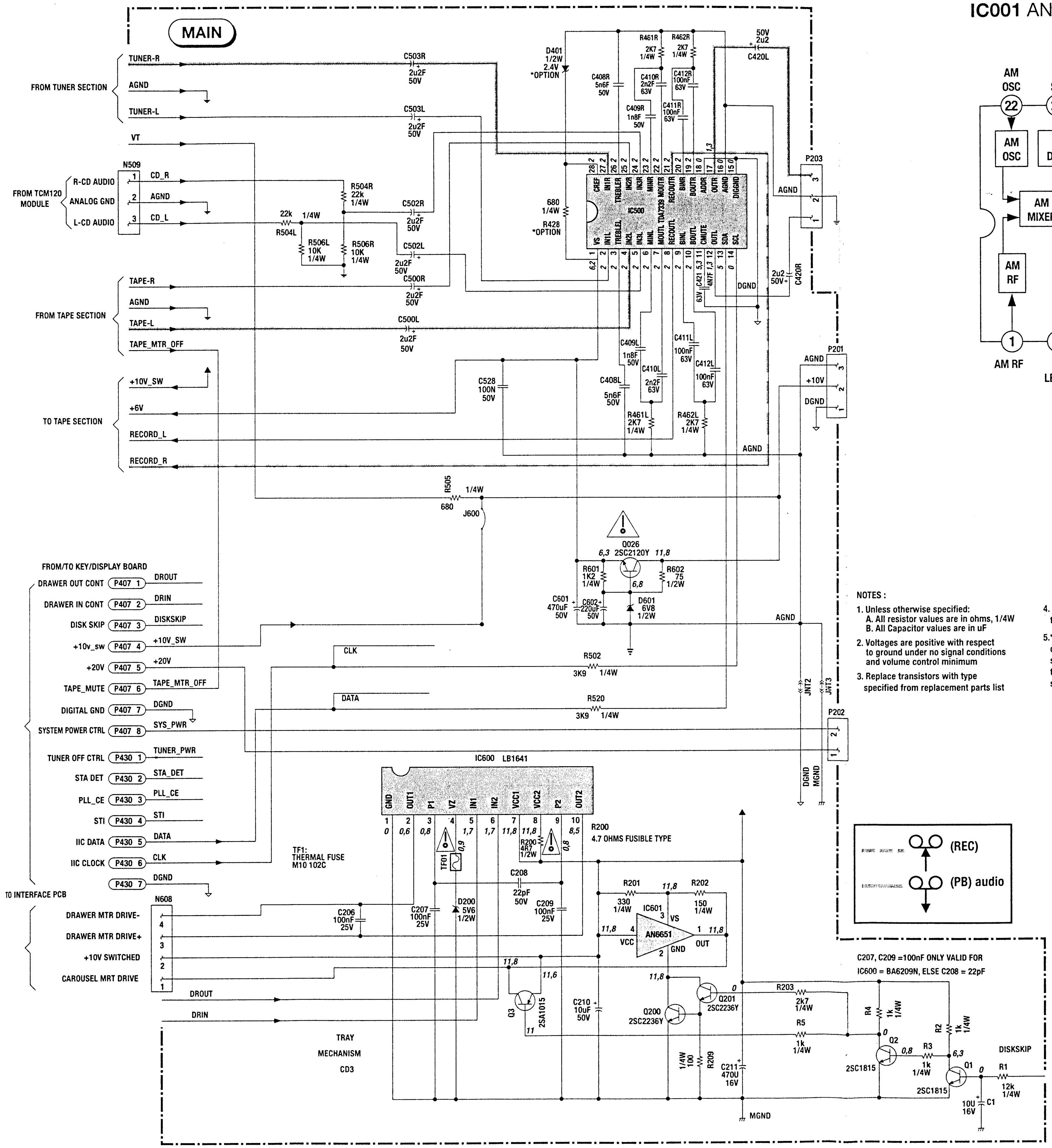
DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :

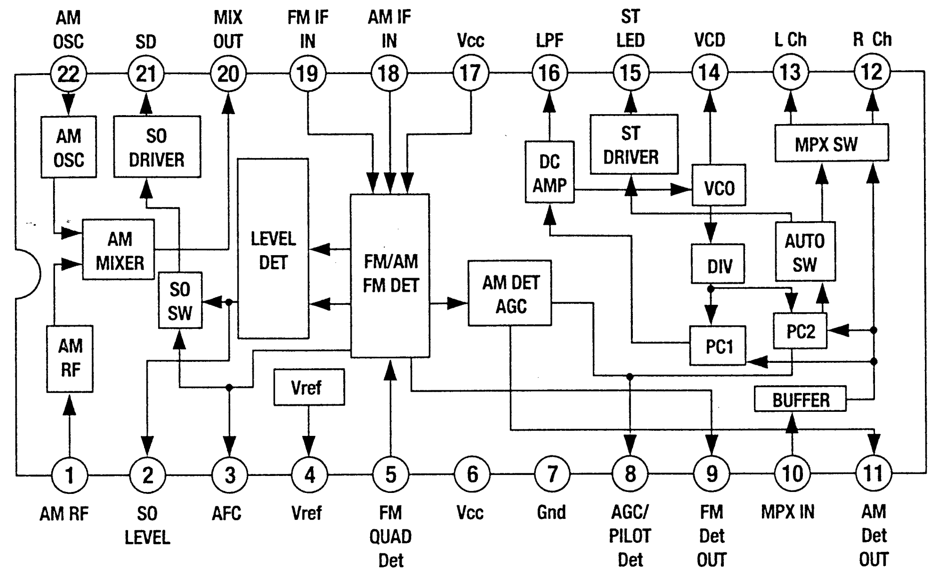
105 928 60



MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTLEITERPLATTE - SCHEMA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL


MAIN
FROM TUNER SECTION
TUNER-R
AGND
TUNER-L
VT
FROM TCM120 MODULE
N509
R-CD AUDIO
ANALOG GND
L-CD AUDIO
CD_R
CD_L
FROM TAPE SECTION
TAPE-R
TAPE-L
TAPE_MTR_OFF
TO TAPE SECTION
+10V_SW
+6V
RECORD_L
RECORD_R
IC500 TDA7439
P203
P201
P202
Q026 2SC2120Y
FROM/TO KEY/DISPLAY BOARD
DRAWER OUT CONT
DRAWER IN CONT
DISK SKIP
+10v_sw
+20V
TAPE_MUTE
DIGITAL GND
SYSTEM POWER CTRL
TUNER OFF CTRL
STA DET
PLL_CE
STI
IIC DATA
IIC CLOCK
TO INTERFACE PCB
N608
DRAWER MTR DRIVE-
DRAWER MTR DRIVE+
+10V SWITCHED
CAROUSEL MRT DRIVE
IC600 LB1641
R200 4.7 OHMS FUSIBLE TYPE
TF1: THERMAL FUSE M10 102C
IC601 AN6651
Q200 2SC2236Y
Q201 2SC2236Y
Q3 2SA1015
2SC1815
TRAY MECHANISM CD3
DISKSKIP
MGND
(REC)
(PB) audio
C207, C209 =100nF ONLY VALID FOR IC600 = BA6209N, ELSE C208 = 22pF

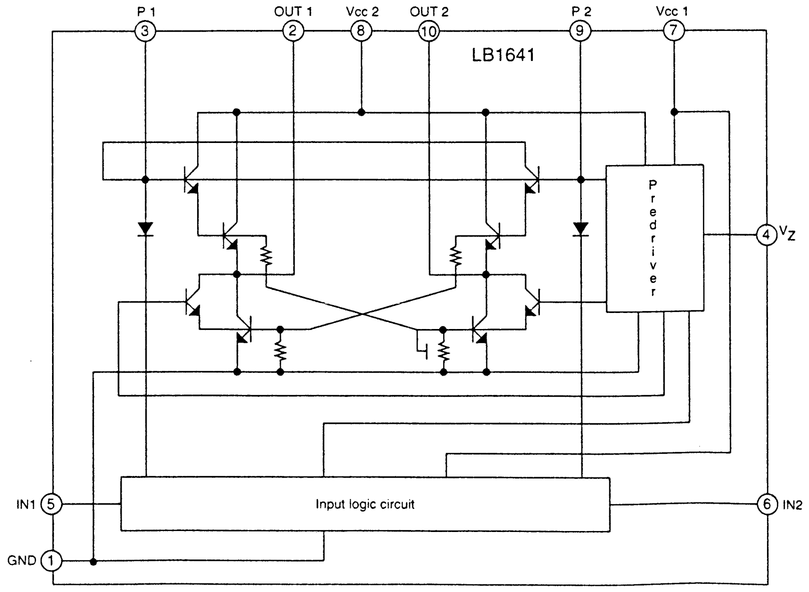
IC001 AN7238


AM OSC
SD
MIX OUT
FM IF IN
AM IF IN
Vcc
LPF
ST LED
VCD
L Ch
R Ch
AM OSC
SO DRIVER
AM MIXER
SO SW
LEVEL DET
FM/AM FM DET
AM DET AGC
DC AMP
ST DRIVER
VCO
DIV
PC1
PC2
AUTO SW
MPX SW
BUFFER
AM RF
Vref
AM RF
SO LEVEL
AFC
Vref
FM QUAD Det
Vcc
Gnd
AGC/ PILOT Det
FM Det OUT
MPX IN
AM Det OUT

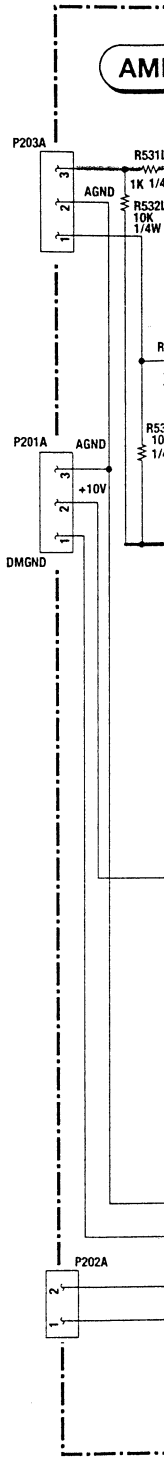
NOTES :

1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/4W
   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

IC600 LB1641

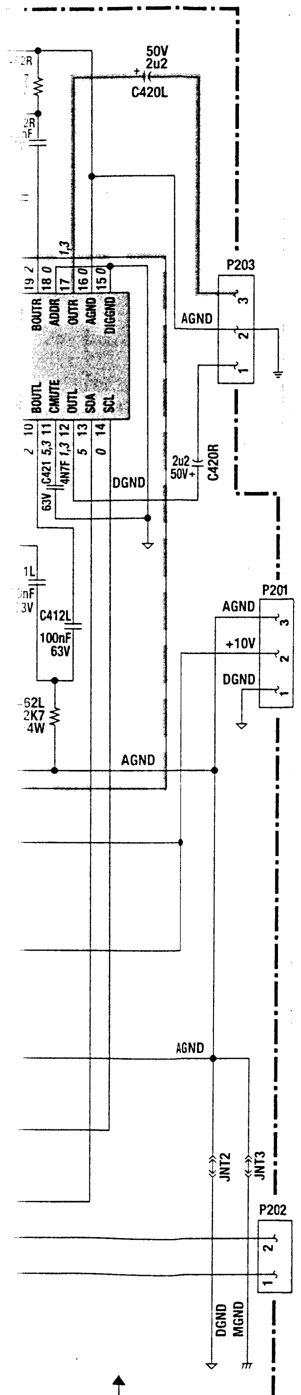

P 1
OUT 1
Vcc 2
OUT 2
P 2
Vcc 1
LB1641
Predriver
VZ
IN1
IN2
GND
Input logic circuit

AMP
SCH
ESQ

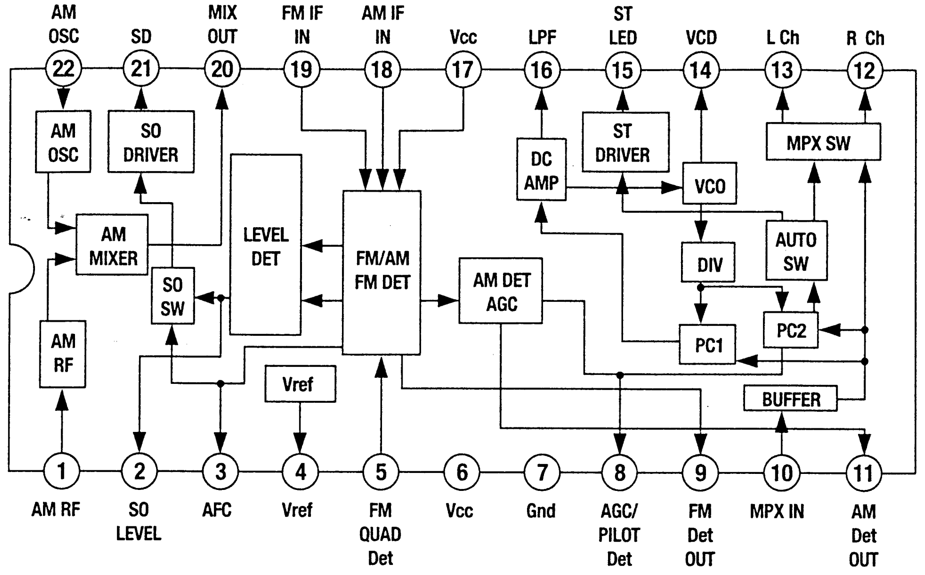

AM
P203A
P201A
P202A
AGND
+10V
DMGND

CRKD1244
First issue 08/99

ALTBILD HAUPTLEITERPLATTE - SCHEMA PIASTRA PRINCIPALE-


50V
2u2
C420L
P203
AGND
BOUTR
ADDR
OUTR
AGND
DIGGND
BOUTL
CMUTE
OUTL
SDA
SCL
2u2
50V
C420R
DGND
C412L
100nF
63V
P201
AGND
+10V
DGND
AGND
JNT2
JNT3
P202
DGND
MGND

IC001 AN7238


AM OSC
SD
MIX OUT
FM IF IN
AM IF IN
Vcc
LPF
ST LED
VCD
L Ch
R Ch
22
21
20
19
18
17
16
15
14
13
12
AM OSC
SO DRIVER
DC AMP
ST DRIVER
VCO
MPX SW
AM MIXER
SO SW
LEVEL DET
FM/AM FM DET
AM DET AGC
DIV
AUTO SW
PC2
PC1
AM RF
Vref
BUFFER
1
2
3
4
5
6
7
8
9
10
11
AM RF
SO LEVEL
AFC
Vref
FM QUAD Det
Vcc
Gnd
AGC/ PILOT Det
FM Det OUT
MPX IN
AM Det OUT

NOTES :

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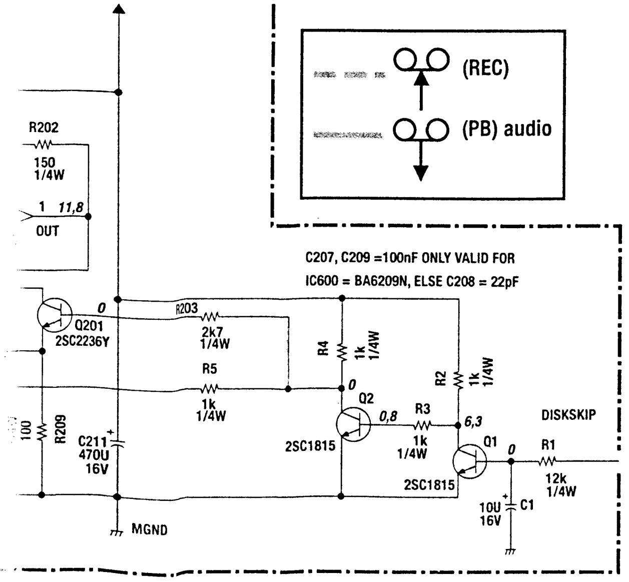
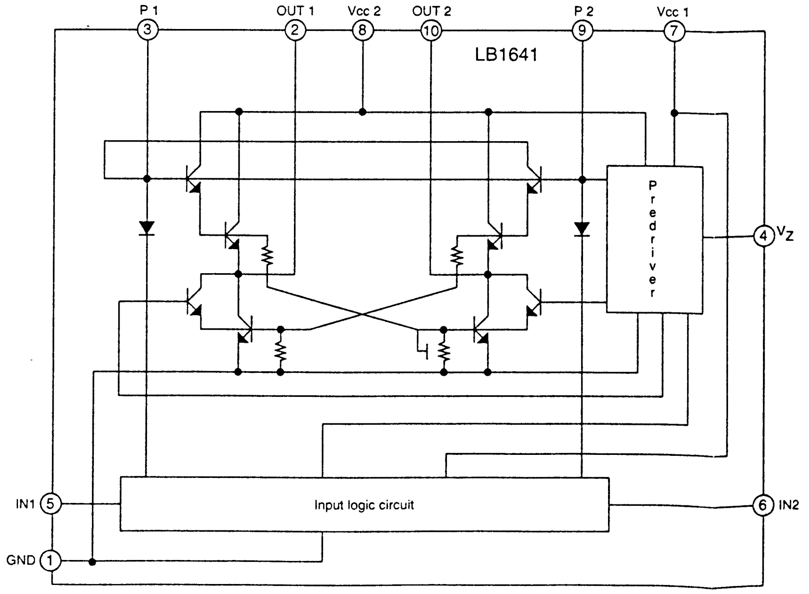
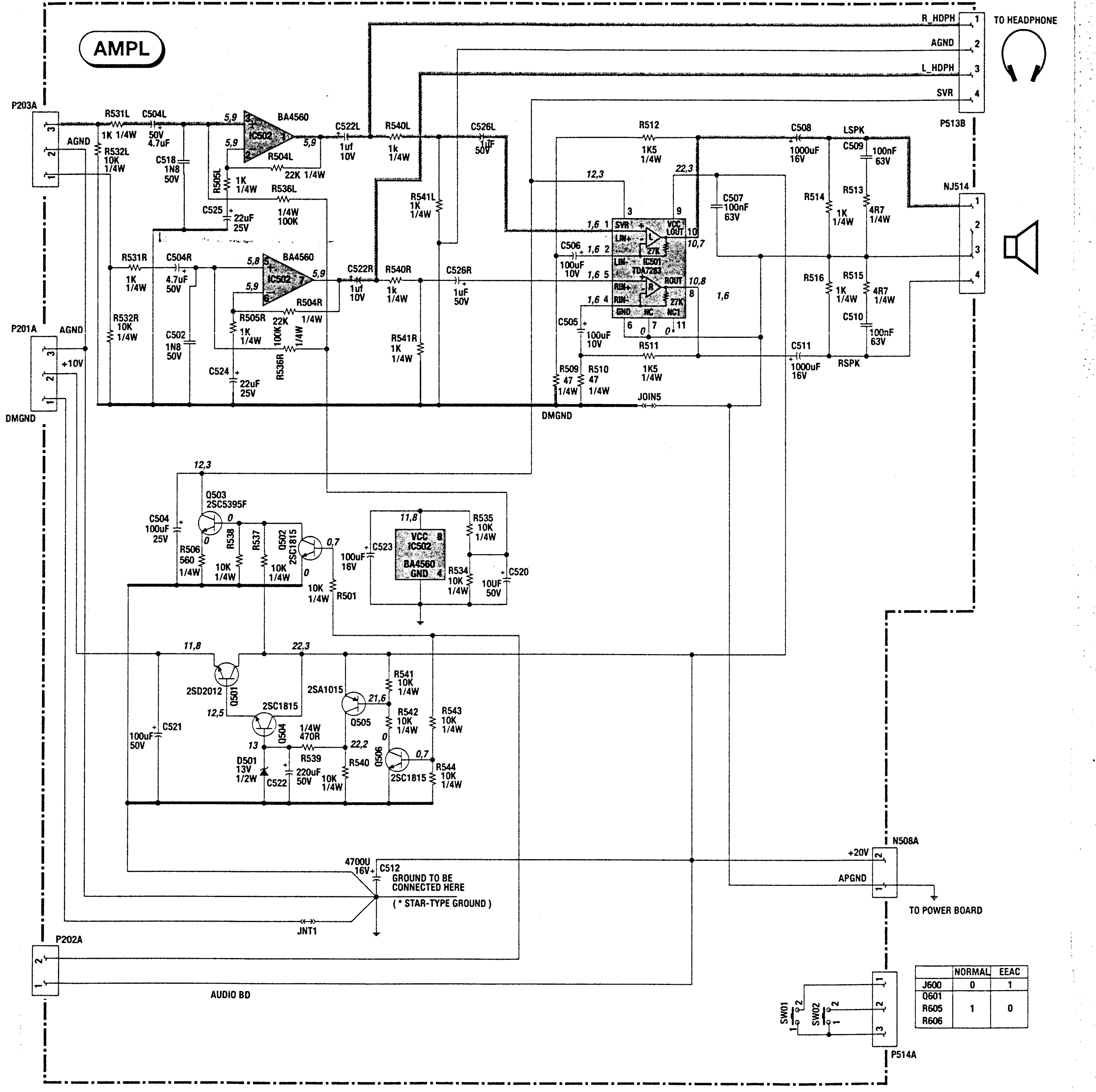

(REC)
(PB) audio
R202
150
1/4W
1 11,8
OUT
C207, C209 =100nF ONLY VALID FOR
IC600 = BA6209N, ELSE C208 = 22pF
Q201
2SC2236Y
R203
2k7
1/4W
R5
1k
1/4W
R4
1k
1/4W
Q2
2SC1815
0,8
R3
1k
1/4W
R2
1k
1/4W
6,3
Q1
2SC1815
R1
12k
1/4W
DISKSKIP
10U
16V
C1
R209
C211
470U
16V
MGND

IC600 LB1641


P 1
OUT 1
Vcc 2
OUT 2
P 2
Vcc 1
3
2
8
10
9
7
LB1641
Predriver
4
Vz
IN1
5
Input logic circuit
6
IN2
GND
1

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR


AMPL
TO HEADPHONE
R_HDPH
AGND
L_HDPH
SVR
P513B
P203A
AGND
R531L
1K 1/4W
C504L
50V
4.7uF
R532L
10K
1/4W
C518
1N8
50V
R505L
BA4560
IC502
R504L
22K 1/4W
R536L
1/4W
100K
C525
22uF
25V
C522L
1uf
10V
R540L
1K
1/4W
C526L
1uF
50V
R541L
1K
1/4W
R512
1K5
1/4W
C508
1000uF
16V
LSPK
C509
100nF
63V
R513
4R7
1/4W
R514
1K
1/4W
NJ514
C507
100nF
63V
IC501
TDA7283
SVR
LIN+
LIN-
RIN-
RIN+
GND
NC
VCC
LOUT
ROUT
NC1
C506
100uF
10V
C505
100uF
10V
R509
47
1/4W
R510
47
1/4W
R511
1K5
1/4W
JOIN5
C511
1000uF
16V
RSPK
R516
1K
1/4W
R515
4R7
1/4W
C510
100nF
63V
P201A
AGND
+10V
DMGND
R531R
1K
1/4W
C504R
4.7uF
50V
R532R
10K
1/4W
C502
1N8
50V
C524
22uF
25V
R505R
1K
1/4W
R536R
100K
1/4W
R504R
22K 1/4W
C522R
1uf
10V
R540R
1K
1/4W
C526R
1uF
50V
R541R
1K
1/4W
DMGND
12,3
Q503
2SC5395F
C504
100uF
25V
R506
560
1/4W
R538
10K
1/4W
R537
10K
1/4W
Q502
2SC1815
0,7
R501
10K
1/4W
C523
100uF
16V
VCC
IC502
BA4560
GND
R535
10K
1/4W
R534
10K
1/4W
C520
10UF
50V
11,8
22,3
Q501
2SD2012
2SC1815
Q504
12,5
2SA1015
Q505
21,6
R541
10K
1/4W
R542
10K
1/4W
R543
10K
1/4W
R539
470R
1/4W
R540
10K
1/4W
Q506
2SC1815
R544
10K
1/4W
C521
100uF
50V
D501
13V
1/2W
C522
220uF
50V
4700U
16V
C512
GROUND TO BE CONNECTED HERE
(* STAR-TYPE GROUND)
JNT1
+20V
APGND
N508A
TO POWER BOARD
P202A
AUDIO BD
SW01
SW02
P514A

	NORMAL	EEAC
J600	0	1
Q601 R605 R606	1	0

NOTES :

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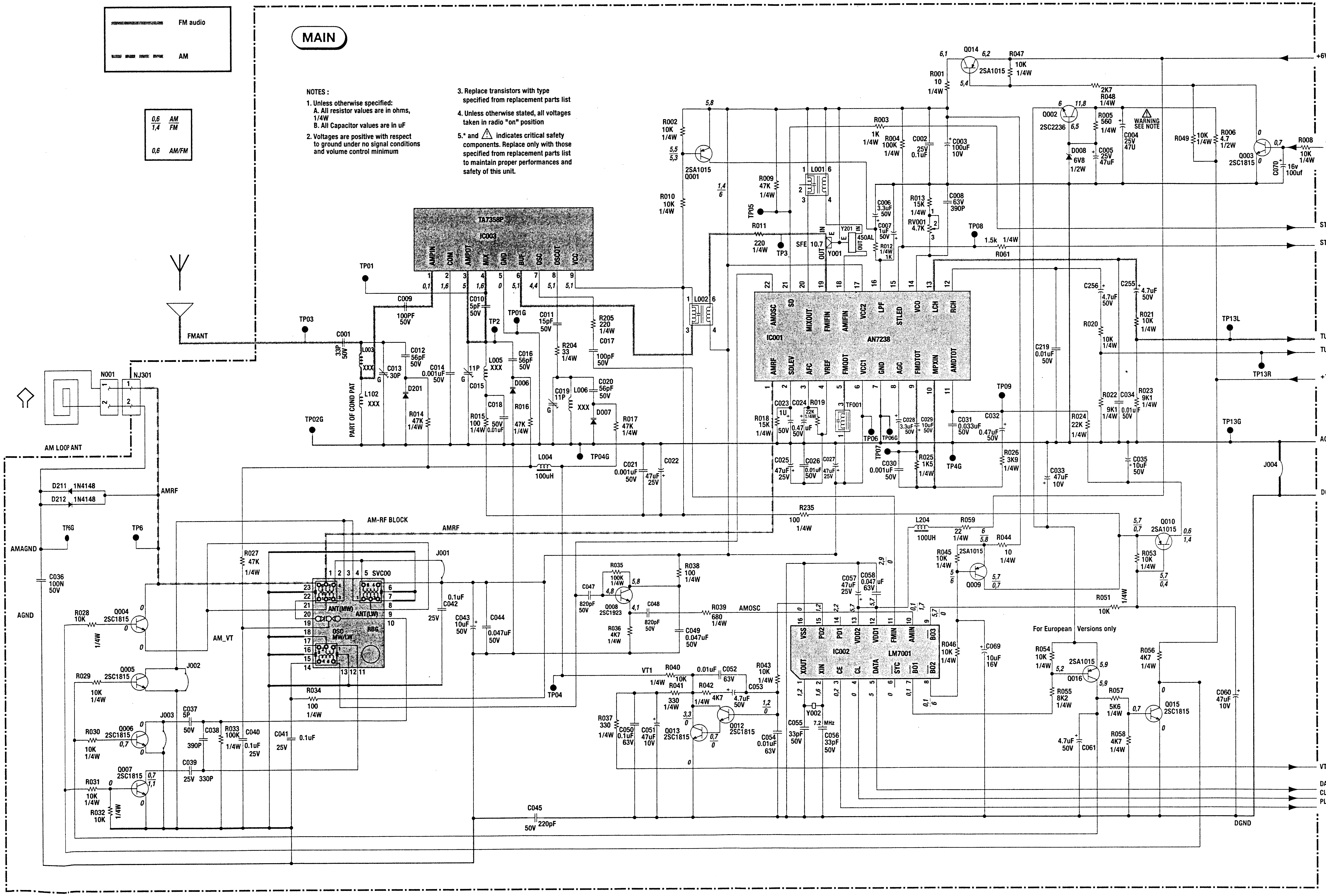
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTLEITERPLATTE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TUNER PART)


FM audio
AM
0,6 AM
1,4 FM
0,6 AM/FM
MAIN
TA7358P
IC003
AMPIN
COM
AMPOUT
MIX
GND
BUF
OSC
OSCOUT
VCC
IC001
AN7236
AMOSC
SD
MIXOUT
FMIFIN
AMIFIN
VCC2
LPF
STLED
VCO
LCH
RCH
AMRF
SDLEV
AFC
VREF
FMODT
VCC1
GND
AGC
FMDTOT
MPXIN
AMDTOT
IC002
LM7001
VSS
PO2
PO1
VDD2
VDD1
FMIN
AMIN
BO3
XOUT
XIN
CE
CL
DATA
SYC
BO1
BO2
FMANT
AM LOOP ANT
N001
NJ301
AMRF
AM-RF BLOCK
SVC00
ANT(MW)
ANT(LW)
OSC MW/LW
RBG
AMAGND
AGND
AM_VT
AMOSC
VT1
SFE 10.7
Y001
Y201
450AL
Y002
7.2 MHz
L001
L002
TF001
L004
100uH
L204
100UH
Q001 2SA1015
Q002 2SC2236
Q003 2SC1815
Q004 2SC1815
Q005 2SC1815
Q006 2SC1815
Q007 2SC1815
Q008 2SC1923
Q009 2SA1015
Q010 2SA1015
Q012 2SC1815
Q013 2SC1815
Q014 2SA1015
Q015 2SC1815
Q016 2SA1015
D008 6V8 1/2W
D211 1N4148
D212 1N4148
WARNING SEE NOTE
For European Versions only
+6V
TUNER PWR
STA_DET
STI
TUNER-L
TUNER-R
+10V_SW
AGND
DGND
VT
DATA
CLK
PLL_CE
TP01
TP03
TP02G
TP2
TP01G
TP04
TP04G
TP05
TP3
TP06
TP06G
TP07
TP08
TP09
TP4G
TP13L
TP13R
TP13G
TP6G
TP6
J001
J002
J003
J004
PART OF COND PAT

NOTES :

1. Unless otherwise specified:
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   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
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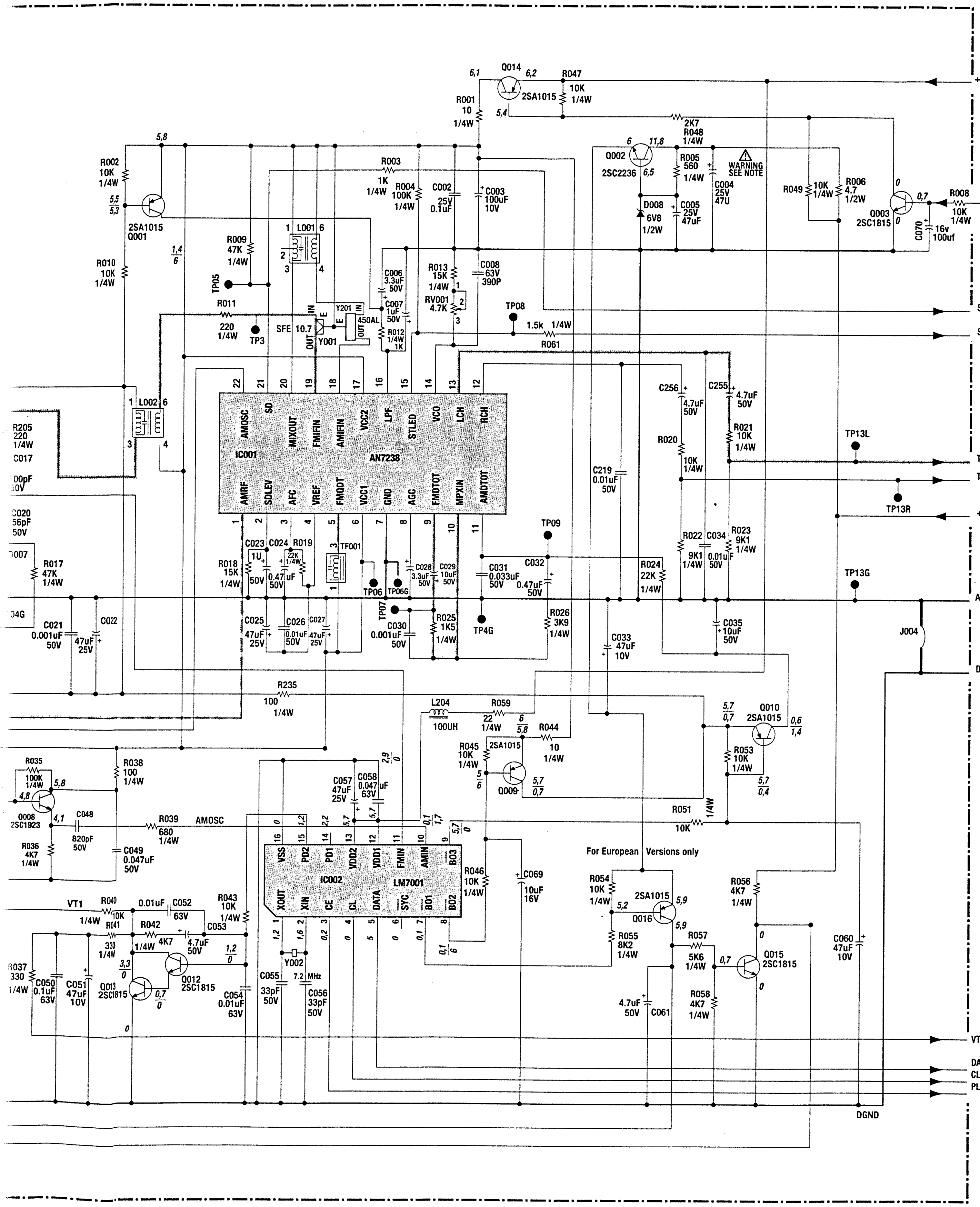
ADJUSTME

FM alignm		
	Gf	
FM	1	
	2	G
	3	
	4	

AM alignm		
	Gf	
MW PO	1	
	2	G
LW GO	3	
	4	

IC001	FM	A
1	5,8	6
2	3	3
3	2,8	2,
4	2,5	2,
5	5,9	5,
6	5,8	6
7	0	0
8	1,2	1,
9	2,4	2,
10	2,5	2,
11	-	-

ILD HAUPTLEITERPLATTE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL



+6V
TUNER PWR
STA_DET
STI
TUNER-L
TUNER-R
+10V_SW
AGND
DGND
VT
DATA
CLK
PLL_CE
IC001 AN7238
IC002 LM7001
AMOSC
Q014 2SA1015
Q002 2SC2236
Q003 2SC1815
Q001 2SA1015
Q008 2SC1923
Q009 2SA1015
Q010 2SA1015
Q012 2SC1815
Q013 2SC1815
Q015 2SC1815
Q016 2SA1015
WARNING SEE NOTE
SFE 10.7
Y001
Y002 7.2 MHz
L001
L002
TF001
L204 100UH
J004
TP3
TP05
TP06
TP06G
TP07
TP08
TP09
TP4G
TP13L
TP13R
TP13G
For European Versions only

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

FM alignment

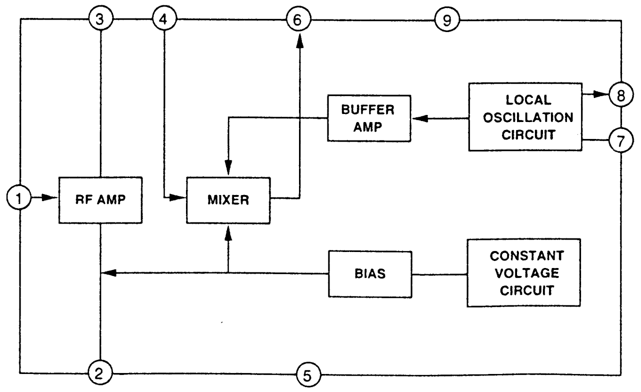
		Gf ⊖ Y	f	18888 KHZ		
FM	1	Gf Y	87,5 MHz	87,5 MHz	L006	TP04 V = 1V ± 0,05V
	2		108 MHz	108 MHz	C019	TP04 V = 7V ± 0,2V
	3		90,1 MHz	90,1 MHz	L005	TP3 max.
	4		106,1 MHz	106,1 MHz	C013-C015	TP3 max.

AM alignment

		Gf ⊖ Y	f	18888 KHZ		
MW PO	1	Gf Y	522 kHz	522 kHz		TP04-TP04G 1,6V ± 0,2V
	2		1620 kHz	1620 kHz		TP04 6,1V ± 0,2V
LW GO	3		150 kHz	150 kHz		TP04 1,4V ± 0,4V
	4		283 kHz	283 kHz		TP04 5,8V ± 0,5V

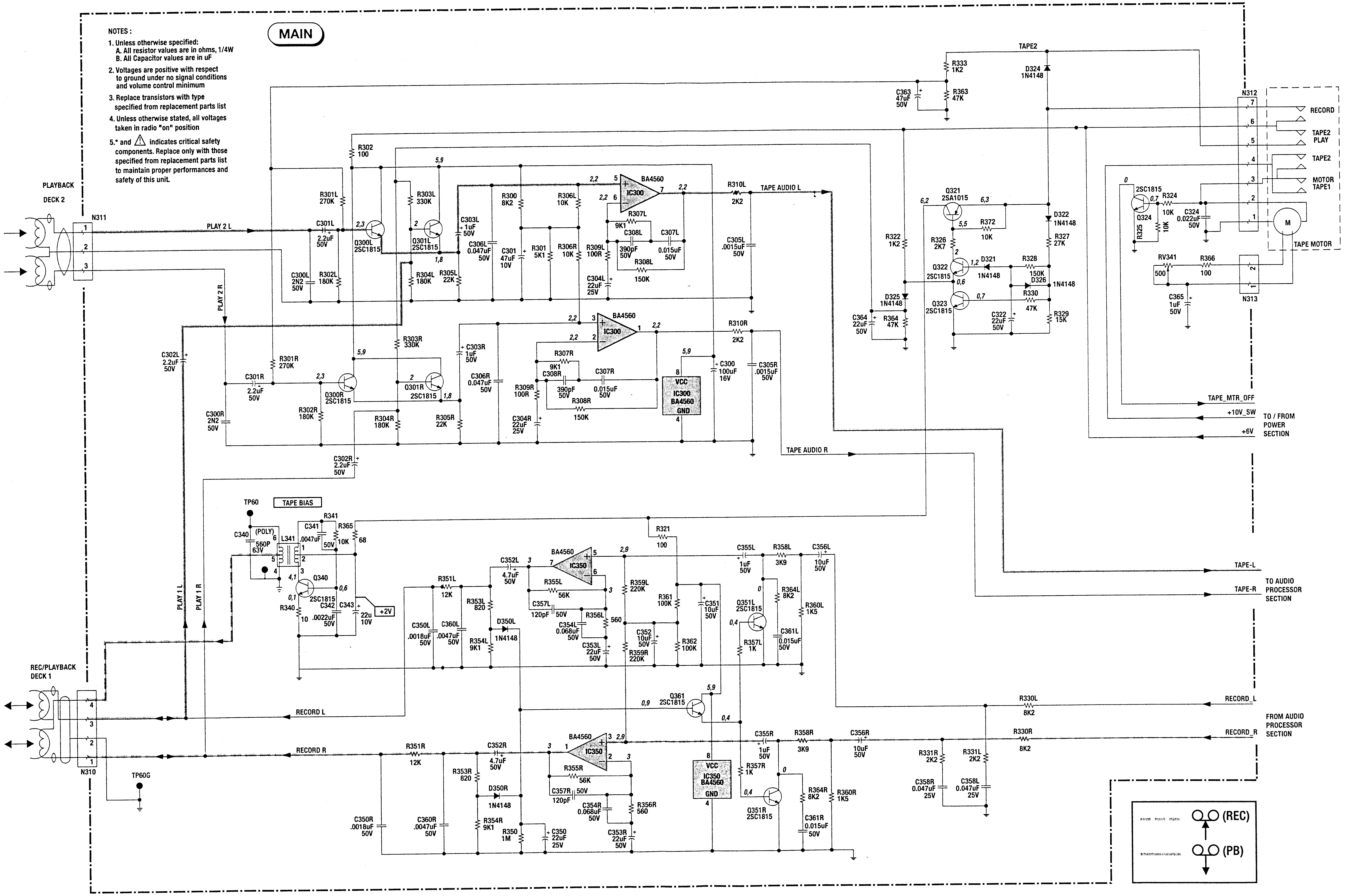
IC001	FM	AM		FM	AM
1	5,8	6	12	2,5	2,5
2	3	3	13	2,6	2,6
3	2,8	2,5	14	0,6	0
4	2,5	2,5	15	0,1	5,5
5	5,9	5,9	16	1,4	4,3
6	5,8	6	17	5,8	6
7	0	0	18	5,7	6
8	1,2	1,6	19	5,8	5,8
9	2,4	2,4	20	5,8	6
10	2,5	2,5	21	0,7	0,7
11	-	-	22	5,8	6

IC003 TA 7358P



1
2
3
4
5
6
7
8
9
RF AMP
MIXER
BUFFER AMP
LOCAL OSCILLATION CIRCUIT
BIAS
CONSTANT VOLTAGE CIRCUIT

MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD HAUPTLEITERPLATTE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TAPE PART)



NOTES :

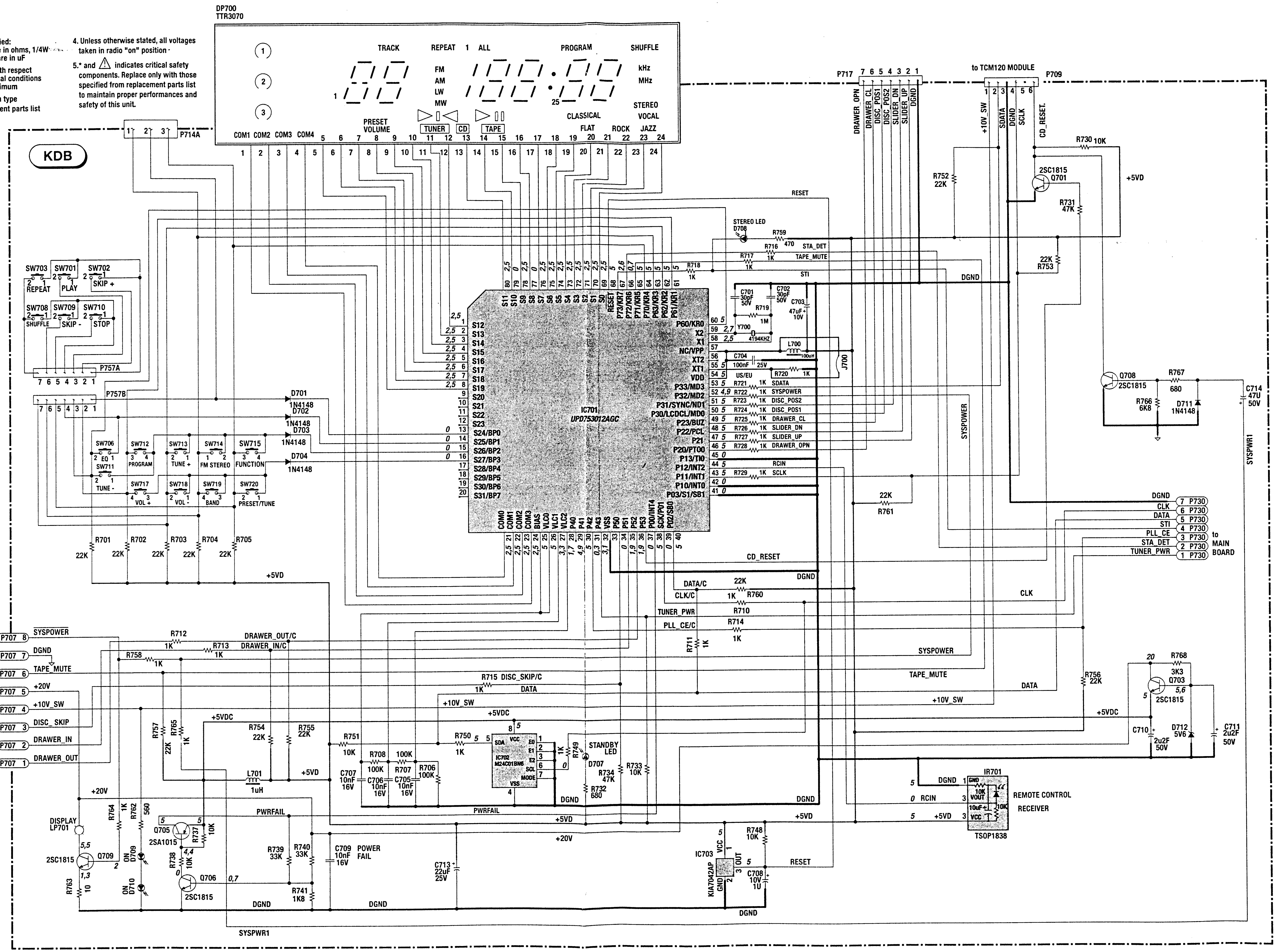
1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/4W
   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

MAIN
PLAYBACK DECK 2
N311
PLAY 2 L
PLAY 2 R
REC/PLAYBACK DECK 1
N310
TP60G
RECORD L
RECORD R
PLAY 1 L
PLAY 1 R
TP60
TAPE BIAS
C340 (POLY) 560P 63V
L341
C341 .0047uF 50V
R341
R365 10K
68
Q340 2SC1815
R340 10
C342 .0022uF 50V
C343 22u 10V
+2V
R302 100
R301L 270K
C301L 2.2uF 50V
C300L 2N2 50V
R302L 180K
Q300L 2SC1815
R303L 330K
Q301L 2SC1815
R304L 180K
R305L 22K
C303L 1uF 50V
C306L 0.047uF 50V
R300 8K2
C301 47uF 10V
R301 5K1
R306L 10K
R306R 10K
R309L 100R
C304L 22uF 25V
R307L 9K1
C308L 390pF 50V
C307L 0.015uF 50V
R308L 150K
IC300 BA4560
R310L 2K2
TAPE AUDIO L
C305L .0015uF 50V
R301R 270K
C301R 2.2uF 50V
C302L 2.2uF 50V
C300R 2N2 50V
R302R 180K
Q300R 2SC1815
R303R 330K
Q301R 2SC1815
R304R 180K
R305R 22K
C303R 1uF 50V
C306R 0.047uF 50V
R309R 100R
C304R 22uF 25V
R307R 9K1
C308R 390pF 50V
C307R 0.015uF 50V
R308R 150K
R310R 2K2
C300 100uF 16V
C305R .0015uF 50V
VCC IC300 BA4560 GND
TAPE AUDIO R
C302R 2.2uF 50V
R333 1K2
C363 47uF 50V
R363 47K
TAPE2
D324 1N4148
R322 1K2
Q321 2SA1015
R326 2K7
R372 10K
Q322 2SC1815
D321 1N4148
D322 1N4148
R327 27K
R328 150K
D326 1N4148
Q323 2SC1815
R330 47K
R329 15K
C322 22uF 50V
D325 1N4148
C364 22uF 50V
R364 47K
Q324 2SC1815
R324 10K
C324 0.022uF 50V
R325 10K
RV341 500
R366 100
C365 1uF 50V
N312
N313
RECORD
TAPE2 PLAY
TAPE2
MOTOR TAPE1
TAPE MOTOR
M
TAPE_MTR_OFF
+10V_SW
+6V
TO / FROM POWER SECTION
TAPE-L
TAPE-R
TO AUDIO PROCESSOR SECTION
RECORD_L
RECORD_R
FROM AUDIO PROCESSOR SECTION
R321 100
IC350 BA4560
C352L 4.7uF 50V
R351L 12K
R353L 820
C350L .0018uF 50V
C360L .0047uF 50V
R354L 9K1
D350L 1N4148
R355L 56K
C357L 120pF 50V
C354L 0.068uF 50V
R356L 560
C353L 22uF 50V
R359L 220K
R361 100K
C352 10uF 50V
R359R 220K
C351 10uF 50V
R362 100K
C355L 1uF 50V
R358L 3K9
C356L 10uF 50V
Q351L 2SC1815
R364L 8K2
R360L 1K5
R357L 1K
C361L 0.015uF 50V
Q361 2SC1815
R330L 8K2
R330R 8K2
R331R 2K2
R331L 2K2
C358R 0.047uF 25V
C358L 0.047uF 25V
R351R 12K
C352R 4.7uF 50V
R353R 820
D350R 1N4148
R354R 9K1
C350R .0018uF 50V
C360R .0047uF 50V
R350 1M
C350 22uF 25V
R355R 56K
C357R 120pF 50V
C354R 0.068uF 50V
R356R 560
C353R 22uF 50V
VCC IC350 BA4560 GND
C355R 1uF 50V
R358R 3K9
C356R 10uF 50V
R357R 1K
Q351R 2SC1815
R364R 8K2
R360R 1K5
C361R 0.015uF 50V
(REC)
(PB)

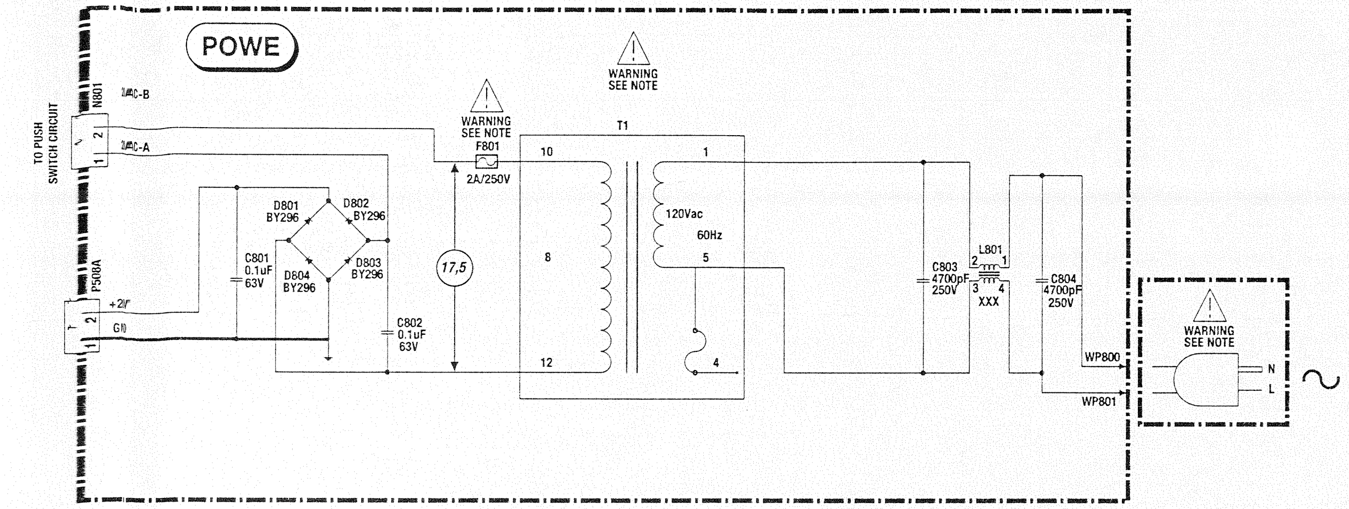
CONTROL/DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES/AFFICHEUR - SCHALTBILD BEDIENTEIL/ANZEIGE - SCHEMA COMANDI/INDICATORE - ESQUEMA MANDOS/INDICADOR

NOTES :

1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/4W
   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

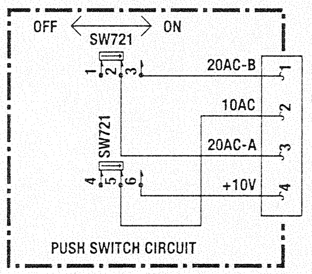

DP700
TTR3070
TRACK
REPEAT 1 ALL
PROGRAM
SHUFFLE
FM
AM
LW
MW
kHz
MHz
STEREO
CLASSICAL
VOCAL
FLAT
ROCK
JAZZ
PRESET
VOLUME
TUNER
CD
TAPE
COM1 COM2 COM3 COM4
KDB
P714A
SW703 REPEAT
SW701 PLAY
SW702 SKIP +
SW708 SHUFFLE
SW709 SKIP -
SW710 STOP
P757A
P757B
D701 1N4148
D702 1N4148
D703 1N4148
D704 1N4148
SW706 EO
SW711 TUNE -
SW712 PROGRAM
SW713 TUNE +
SW714 FM STEREO
SW715 FUNCTION
SW717 VOL +
SW718 VOL -
SW719 BAND
SW720 PRESET/TUNE
R701 22K
R702 22K
R703 22K
R704 22K
R705 22K
+5VD
IC701
UPD753012AGC
STEREO LED D708
R759 470
R716 1K STA_DET
R717 1K TAPE_MUTE
R718 1K STI
RESET
C701 30pF 50V
C702 30pF 50V
C703 47uF 10V
R719 1M
Y700 4194KHZ
L700 100uH
J700
C704 100nF 25V
US/EU
R720 1K
R721 1K SDATA
R722 1K SYSPOWER
R723 1K DISC_POS2
R724 1K DISC_POS1
R725 1K DRAWER_CL
R726 1K SLIDER_DN
R727 1K SLIDER_UP
R728 1K DRAWER_OPN
RCIN
R729 1K SCLK
P717
DRAWER_OPN
DRAWER_CL
DISC_POS1
DISC_POS2
SLIDER_DN
SLIDER_UP
DGND
to TCM120 MODULE
P709
+10V_SW
SDATA
DGND
SCLK
CD_RESET
R730 10K
R752 22K
2SC1815 Q701
+5VD
R731 47K
22K R753
Q708 2SC1815
R767 680
R766 6K8
D711 1N4148
C714 47U 50V
SYSPOWER
SYSPWR1
22K R761
DGND 7 P730
CLK 6 P730
DATA 5 P730
STI 4 P730
PLL_CE 3 P730
STA_DET 2 P730
TUNER_PWR 1 P730
to MAIN BOARD
CD_RESET
DATA/C
CLK/C
TUNER_PWR
PLL_CE/C
22K
1K R760
R710
R714 1K
R711 1K
CLK
P707 8 SYSPOWER
P707 7 DGND
P707 6 TAPE_MUTE
P707 5 +20V
P707 4 +10V_SW
P707 3 DISC_SKIP
P707 2 DRAWER_IN
P707 1 DRAWER_OUT
to MAIN BOARD
R712 1K DRAWER_OUT/C
R713 1K DRAWER_IN/C
R758 1K
R715 DISC_SKIP/C
DATA
+10V_SW
TAPE_MUTE
R756 22K
R768 3K3
Q703 2SC1815
D712 5V6
C710 2u2F 50V
C711 2u2F 50V
+5VDC
R757 22K
R765 1K
R754 22K
R755 22K
R751 10K
R708 100K
R707 100K
R706 100K
C707 10nF 16V
C706 10nF 16V
C705 10nF 16V
L701 1uH
R750 1K
IC702 M24C01BN6
SDA VCC E0 E1 E2 SCL MODE VSS
STANDBY LED
R749 1K
D707
R734 47K
R733 10K
R732 680
DGND
PWRFAIL
IR701
REMOTE CONTROL RECEIVER
TSOP1838
DGND
RCIN
+5VD
DISPLAY LP701
2SC1815 Q709
R763 10
R764 1K
R762 560
ON D709
ON D710
Q705 2SA1015
R737 10K
R738 10K
Q706 2SC1815
R739 33K
R740 33K
R741 1K8
C709 10nF 16V
POWER FAIL
C713 22uF 25V
+20V
IC703 KIA7042AP
R748 10K
C708 10V 1U
RESET
SYSPWR1

POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN

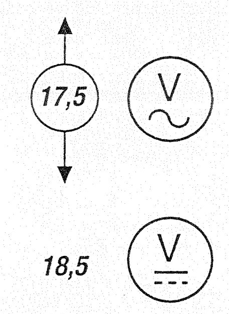

POWE
TO PUSH SWITCH CIRCUIT
N801
1AC-B
1AC-A
P506A
+2V
GII
D801 BY296
D802 BY296
D803 BY296
D804 BY296
C801 0.1uF 63V
C802 0.1uF 63V
WARNING SEE NOTE
F801
2A/250V
17,5
T1
10
8
12
1
5
4
120Vac
60Hz
C803 4700pF 250V
L801
XXX
C804 4700pF 250V
WP800
WP801
N
L

NOTES :

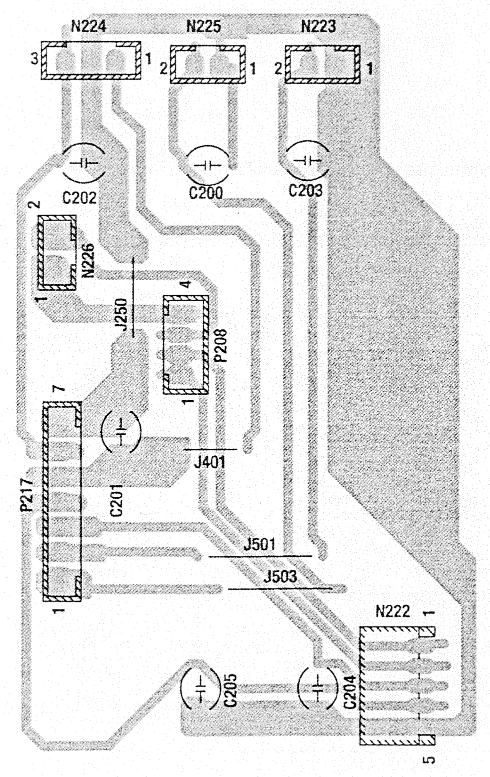
1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/4W
   B. All capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5.* and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.


OFF
ON
SW721
20AC-B
10AC
20AC-A
+10V
N801A
PUSH SWITCH CIRCUIT

Sockets P.C.B.
Platine prises
Anschlussplatte
Piastra prese
Platina tomas

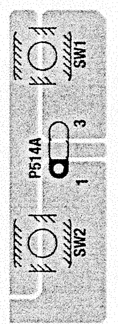


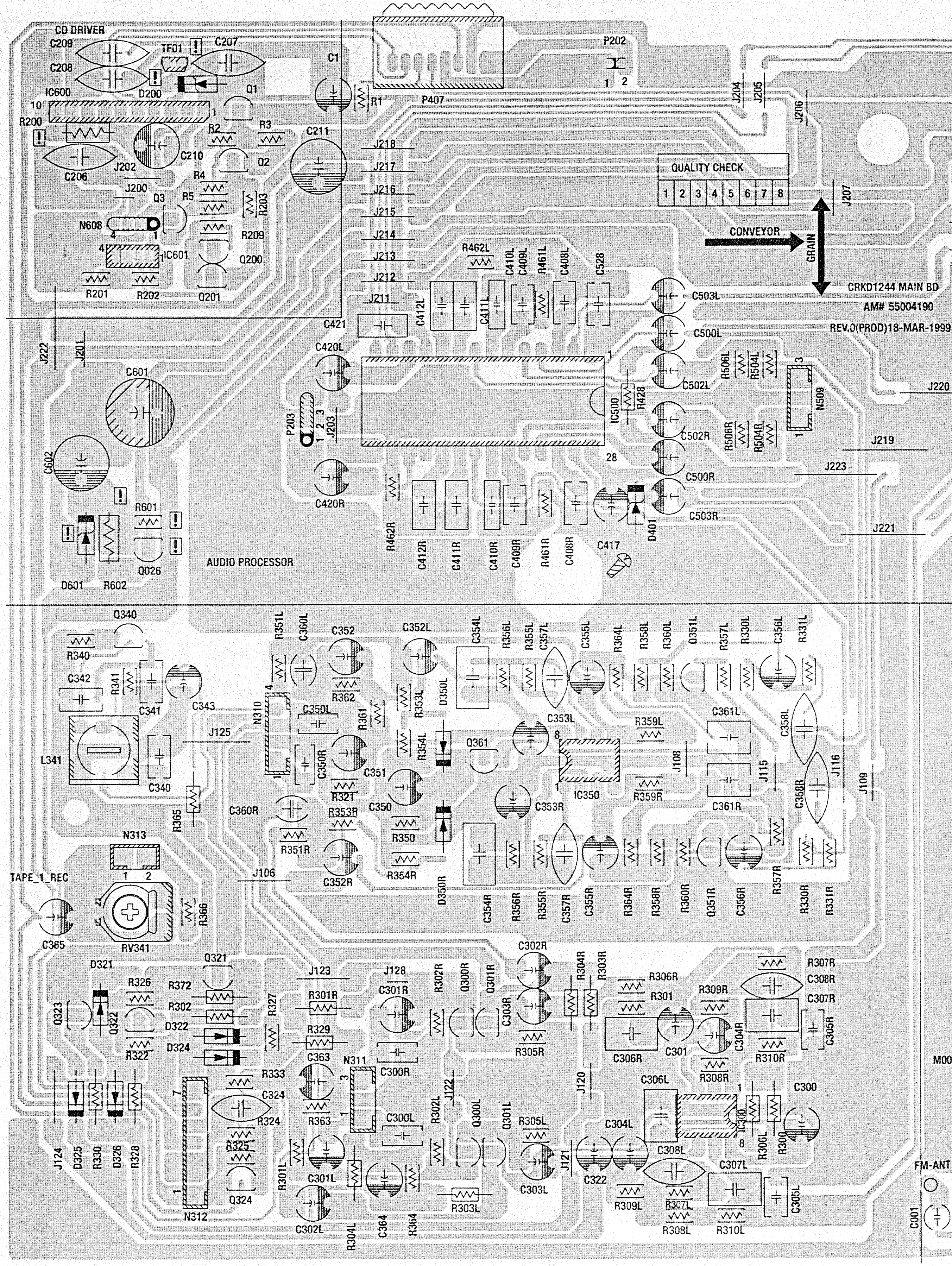
10 MΩ


N224
N225
N223
C202
C200
C203
N226
J250
P208
J401
P217
C201
J501
J503
N222
C205
C204

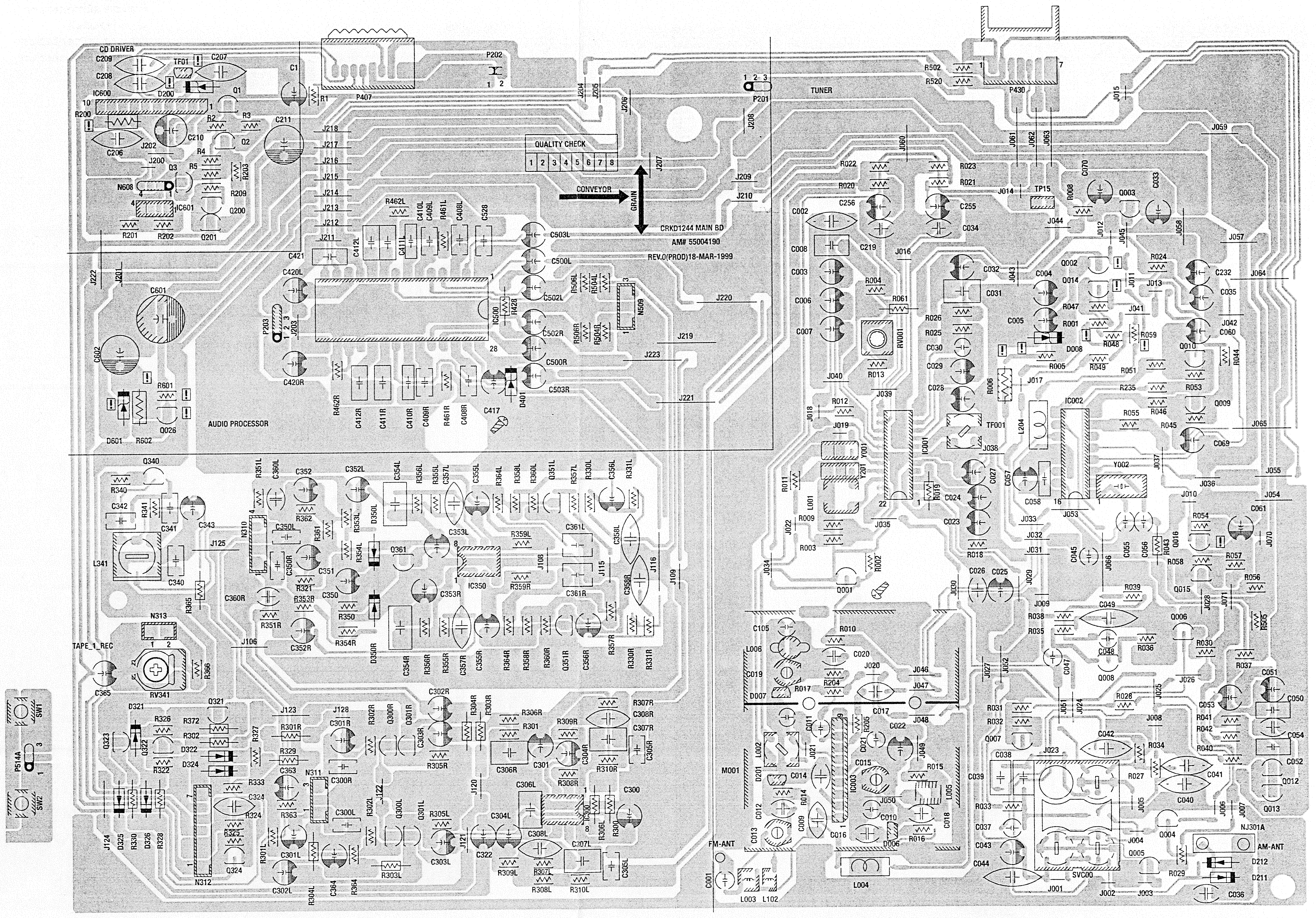
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Main P.C.B.
Platine principale
Hauptleiterplatte
Piastra principale
Platina principal

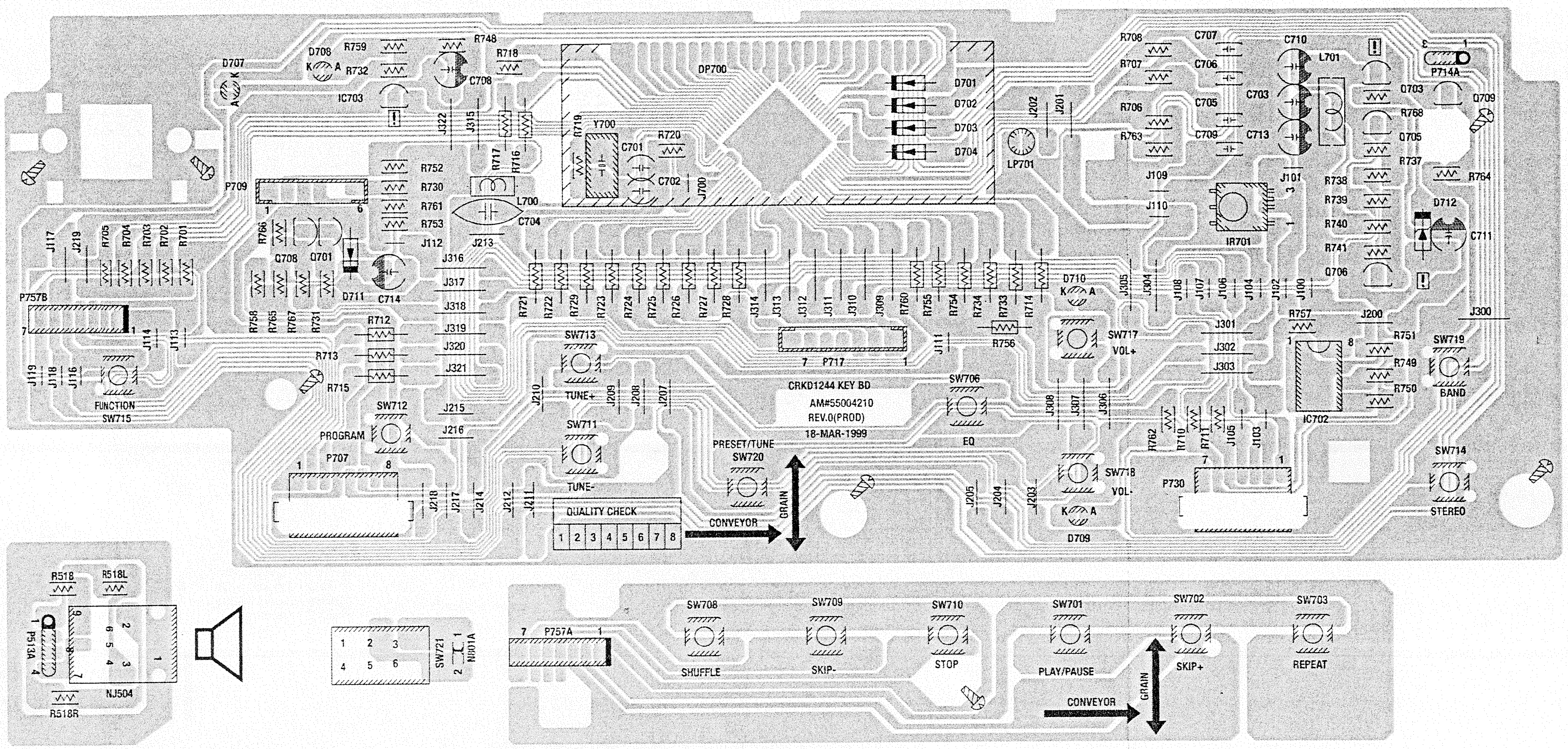

SW1
P514A
SW2


CD DRIVER
IC600
P202
P407
QUALITY CHECK
CONVEYOR
GRAIN
CRKD1244 MAIN BD
AM# 55004190
REV.0(PROD)18-MAR-1999
IC500
AUDIO PROCESSOR
IC350
TAPE_1_REC
RV341
N312
N313
FM-ANT

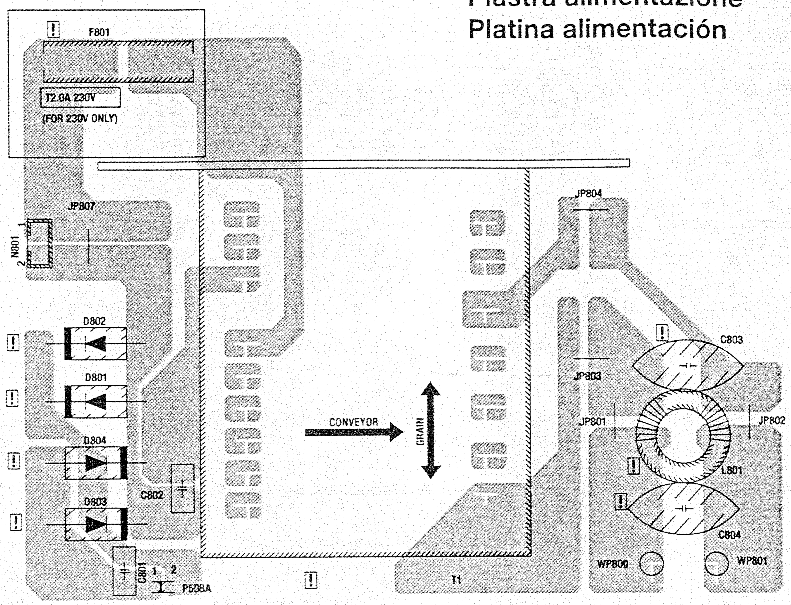
Main P.C.B.
Platine principale
Hauptleiterplatte
Piastra principale
Platina principal


CD DRIVER
QUALITY CHECK
CONVEYOR
GRAIN
CRKD1244 MAIN BD
AM# 55004190
REV.0(PROD)18-MAR-1999
AUDIO PROCESSOR
TUNER
TAPE_1_REC
FM-ANT
AM-ANT
P514A
SW1
SW2

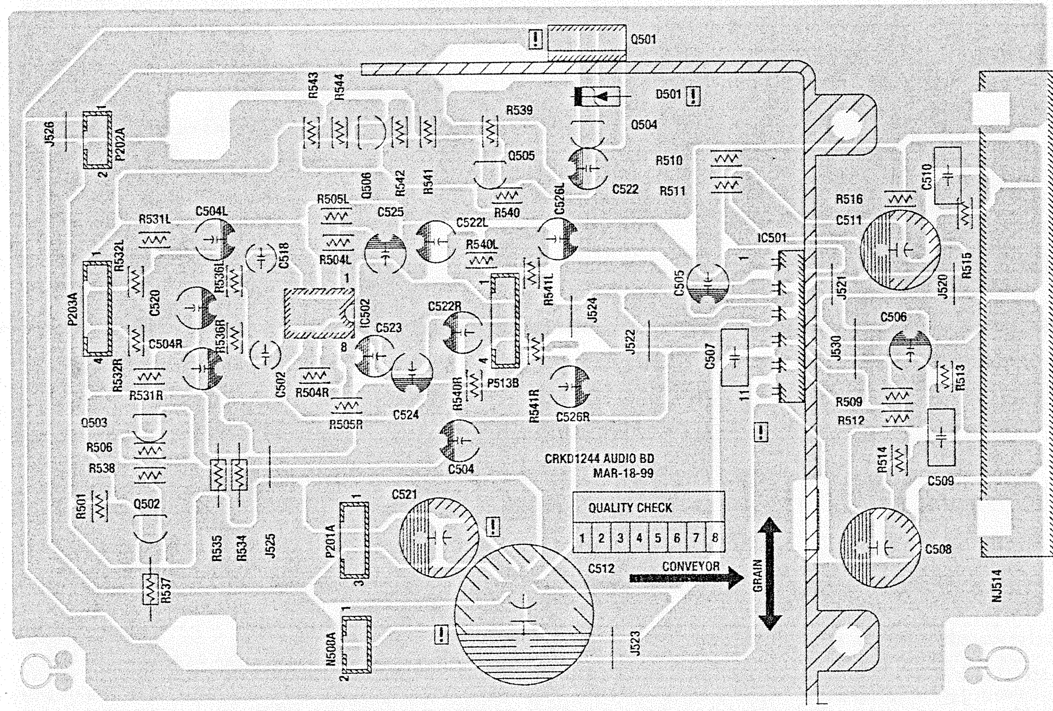
Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

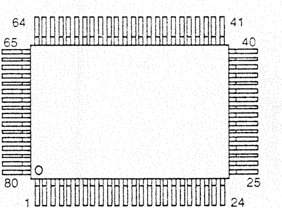

CRKD1244 KEY BD
AM#55004210
REV.0(PROD)
18-MAR-1999
QUALITY CHECK
CONVEYOR
GRAIN
FUNCTION SW715
PROGRAM SW712
PRESET/TUNE SW720
TUNE+ SW713
TUNE- SW711
EQ SW706
VOL+ SW717
VOL- SW718
BAND SW719
STEREO SW714
DP700
IR701
IC702
IC703
LP701
P717
P707
P730
P757B
SHUFFLE SW708
SKIP- SW709
STOP SW710
PLAY/PAUSE SW701
SKIP+ SW702
REPEAT SW703
P757A
SW721
NJ504
P513A

Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación

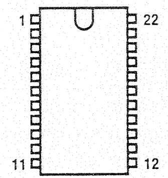

F801
T2.0A 230V
(FOR 230V ONLY)
JP807
JP804
D802
D801
D804
D803
C802
C801
P506A
CONVEYOR
GRAIN
T1
C803
C804
L801
JP803
JP801
JP802
WP800
WP801

Amplifiier P.C.B.
Platine amplificateur
Ltpl. Endverstärker
Piastra amplificatore
Platina amplificador

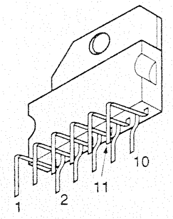

CRKD1244 AUDIO BD
MAR-18-99
QUALITY CHECK
CONVEYOR
GRAIN
Q501
D501
IC501
C521
C512
C508
NJ514
P201A
P202A
P203A
N508A


64
41
65
40
80
25
1
24

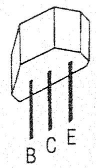
UPD753012ACC



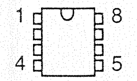
AN 7238



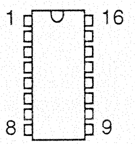
TDA 7263



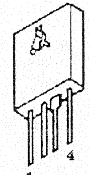
2SC 5395



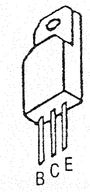
M24
BA 4560



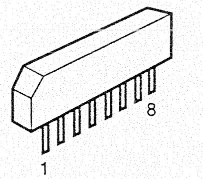
CM 7001



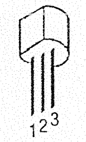
AN 6651



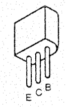
2SD 2012



TA 7358 P
LB 1641

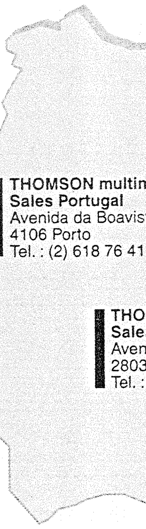


KIA 7024 AP



2SC 1923
2SC 2236
2SC 1819
2SC 1015
2SC 2120

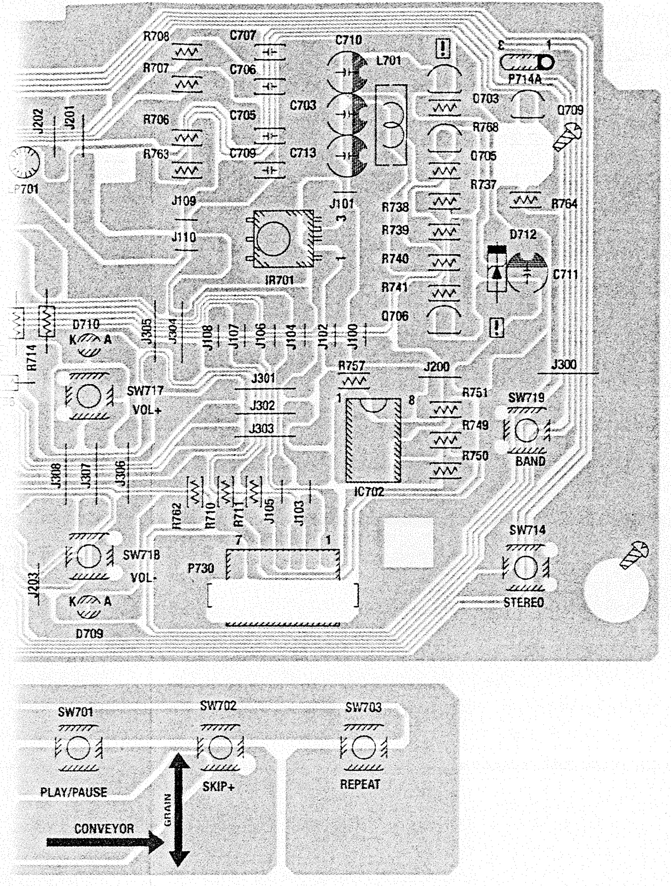
Tecl
Doc
Dies
Doc
Doc



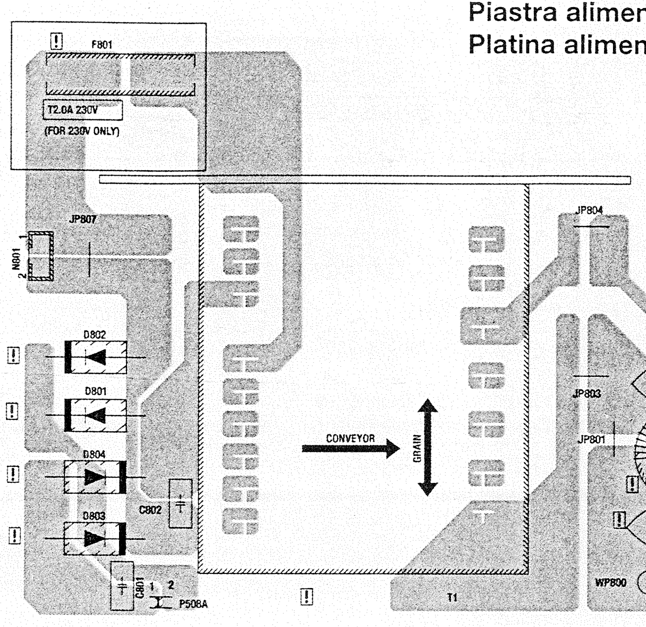
THOMSON multin
Sales Portugal
Avenida da Boavis
4106 Porto
Tel. : (2) 618 76 41

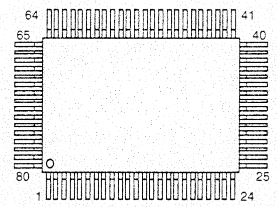
THO
Sale
Aven
2803
Tel. :

The description a
make any chang
d'engagement. E
Beschreibungen
das Recht auf Ä
diritto di eseguire
no de compromi

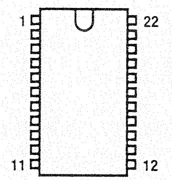

R708
C707
C710
L701
R707
C706
C703
D703
D709
P714A
R706
C705
R768
R763
C709
C713
D705
R737
J202
J201
J109
J101
R738
R764
J110
R739
D712
R740
IR701
R741
C711
D706
D710
R714
J305
J304
J108
J107
J106
J104
J102
J100
R757
J200
J300
SW717
VOL+
J301
R751
SW719
J302
J303
R749
R750
BAND
J308
J307
J306
R782
R710
R711
J105
J103
IC702
SW714
SW718
VOL-
P730
STEREO
J203
D709
SW701
SW702
SW703
PLAY/PAUSE
SKIP+
REPEAT
CONVEYOR
GRAIN

Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación

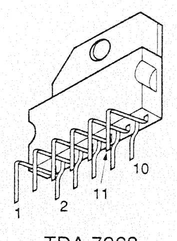

F801
T2.0A 230V
(FOR 230V ONLY)
JP807
D802
D801
D804
D803
C802
C801
P506A
CONVEYOR
GRAIN
T1
JP804
JP803
JP801
JP802
C803
L801
C804
WP800
WP801


64
41
65
40
80
25
1
24

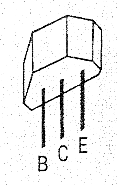
UPD753012ACC



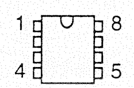
AN 7238



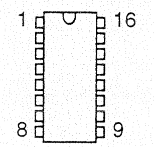
TDA 7263



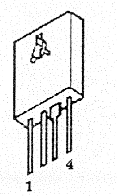
2SC 5395



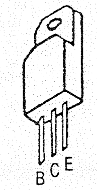
M24
BA 4560



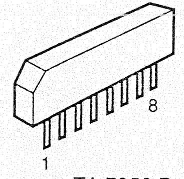
CM 7001



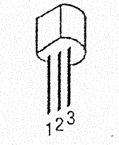
AN 6651



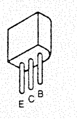
2SD 2012



TA 7358 P
LB 1641



KIA 7024 AP



2SC 1923
2SC 2236
2SC 1819
2SC 1015
2SC 2120

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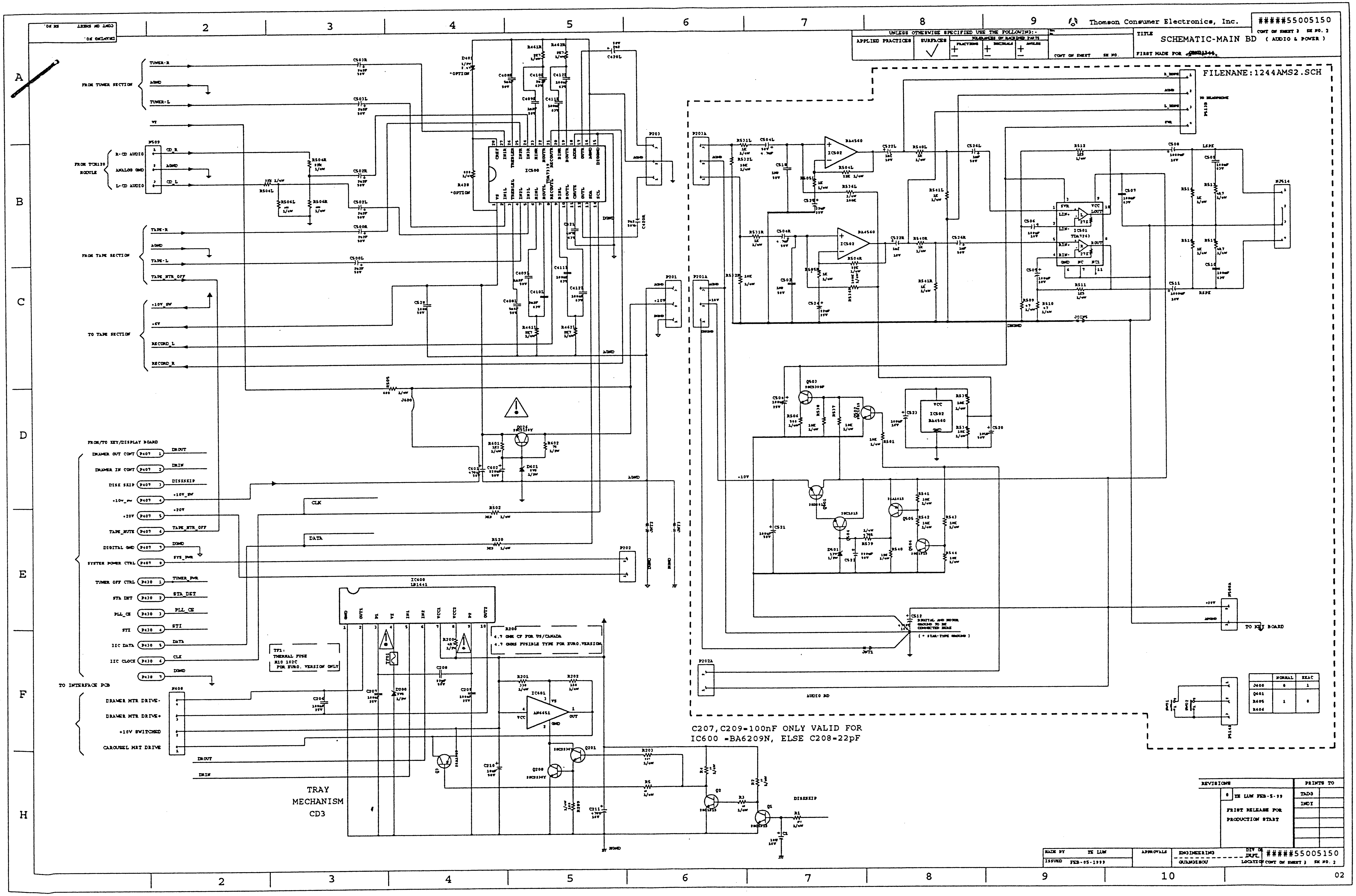

FROM TUNER SECTION
TUNER-R
AGND
TUNER-L
FROM TCR120 MODULE
R-CD AUDIO
ANALOG GND
L-CD AUDIO
FROM TAPE SECTION
TAPE-R
TAPE-L
TAPE_MTR_OFF
TO TAPE SECTION
+10V_SW
+6V
RECORD_L
RECORD_R
IC500
TDA7313
P203
P201
FROM/TO KEY/DISPLAY BOARD
DRAWER OUT CONT
DRAWER IN CONT
DISK SKIP
+10V_SW
+20V
TAPE_MUTE
DIGITAL GND
SYSTEM POWER CTRL
TUNER OFF CTRL
STA DET
PLL_CE
STI
IIC DATA
IIC CLOCK
CLK
DATA
P202
IC600
LB1641
TF1:
THERMAL FUSE
R10 102C
FOR EURO. VERSION ONLY
R200
4.7 OHM CF FOR US/CANADA
4.7 OHMS FUSIBLE TYPE FOR EURO.VERSION
TO INTERFACE PCB
N608
DRAWER MTR DRIVE-
DRAWER MTR DRIVE+
+10V SWITCHED
CAROUSEL MRT DRIVE
DROUT
DRIN
IC601
AN6651
TRAY
MECHANISM
CD3
DISKSKIP
DGND
P203A
P201A
IC502
BA4560
IC501
TDA7263
TO HEADPHONE
P513B
NJ514
LSPK
RSPK
C512
DIGITAL AND MOTOR GROUND TO BE CONNECTED HERE
(* STAR-TYPE GROUND)
P202A
AUDIO BD
TO KEY BOARD
P514A
P514B
FILENANE:1244AMS2.SCH

C207,C209=100nF ONLY VALID FOR
IC600 =BA6209N, ELSE C208=22pF

	NORMAL	EEAC
J600	0	1
Q601 R605 R606	1	0

Thomson Consumer Electronics, Inc.

#####55005150
CONT ON SHEET 3 SH NO. 2

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-

APPLIED PRACTICES	SURFACES	TOLERANCES OF MACHINED PARTS FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

CONT ON SHEET SH NO.

TITLE SCHEMATIC-MAIN BD (AUDIO & POWER)

FIRST MADE FOR CDMD1244

REVISIONS

0 YE LUN FEB-5-99

FRIST RELEASE FOR
PRODUCTION START

PRINTS TO	
TADG	
INDY	

MADE BY YE LUN
ISSUED FEB-05-1999

APPROVALS

ENGINEERING
GUANGZHOU

DIV OR DEPT.
LOCATION

#####55005150
CONT ON SHEET 3 SH NO. 2

02

VICD 800

Thomson Consumer Electronics, Inc.

#####55005150

CONT ON SHEET 4 SH NO. 3

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-

APPLIED PRACTICES	SURFACES	FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

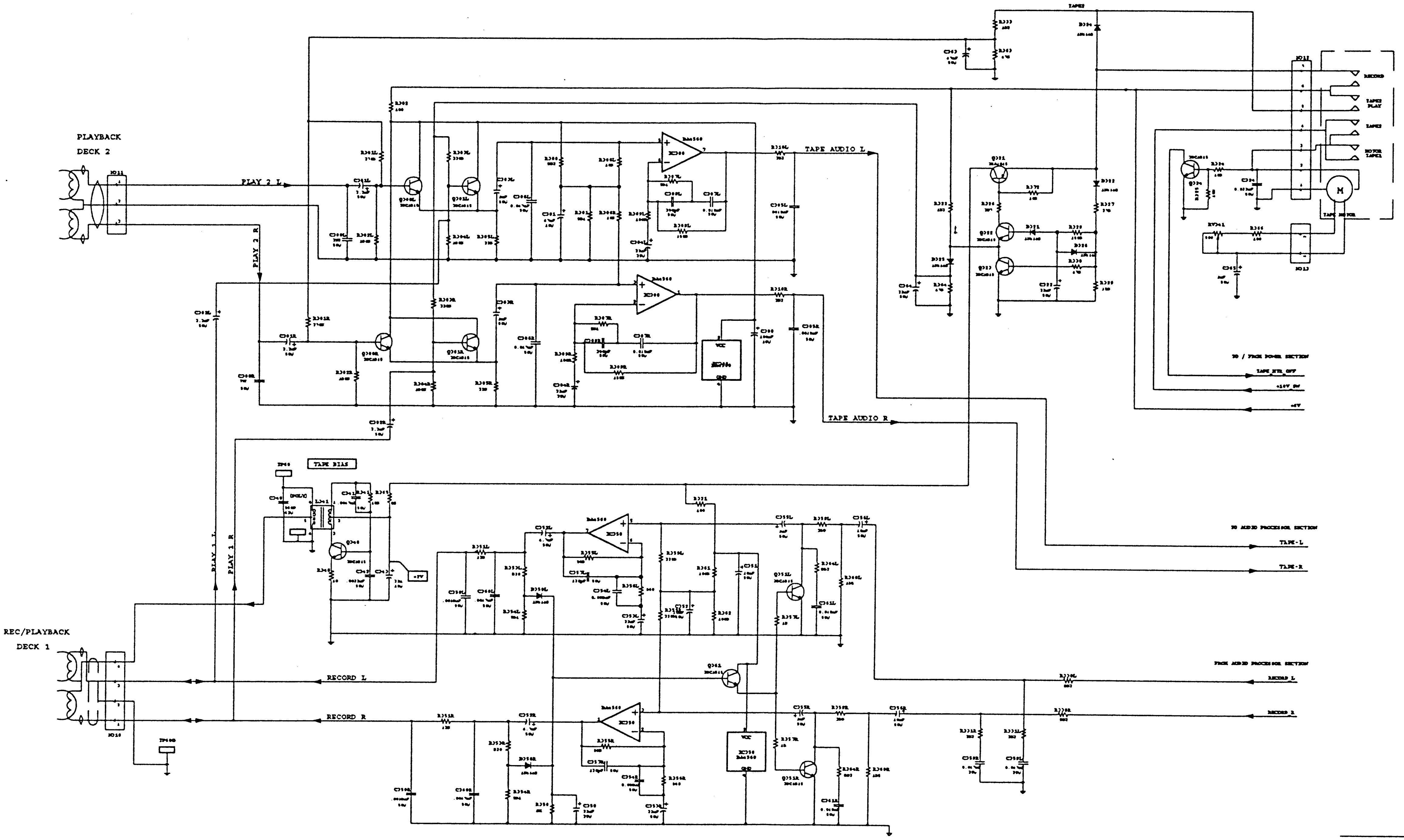
CONT ON SHEET SH NO.

TITLE

SCHEMATIC-MAIN BD(TAPE)

FIRST MADE FOR

FILENAME=1244AMS3.SCH


PLAYBACK
DECK 2
PLAY 2 L
PLAY 2 R
TAPE AUDIO L
TAPE AUDIO R
TAPE BIAS
REC/PLAYBACK
DECK 1
PLAY 1 L
PLAY 1 R
RECORD L
RECORD R
RECORD
TAPE2 PLAY
TAPE1
MOTOR TAPE1
M
TAPE MOTOR
TO / FROM POWER SECTION
TAPE_MTR_OFF
+10V SW
+6V
TO AUDIO PROCESSOR SECTION
TAPE-L
TAPE-R
FROM AUDIO PROCESSOR SECTION
RECORD L
RECORD R
+
-
VCC
GND
+7V

REVISIONS

0 ZUO WEI FEB-5-99

FRIST RELEASE FOR

PRODUCTION START

PRINTS TO

MADE BY ZUO WEI

ISSUED NOV 28 98

APPROVALS

ENGINEERING

GUANG ZHOU

LOCATION

#####55005150

CONT ON SHEET 4 SH NO. 3

Thomson Consumer Electronics, Inc.

#####55005150

CONT ON SHEET 2 SH NO. 1

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-					
APPLIED PRACTICES	SURFACES	TOLERANCES OF MACHINED PARTS FRACTIONS	DECIMALS	ANGLES	CONT ON SHEET . SH NO.
	✓	+ −	+ −	+ −	

TITLE

*****SCHEMATIC MAIN(TUNER)

FIRST MADE FOR CRSD1244T

FILENAME:1244AMS1.SCH

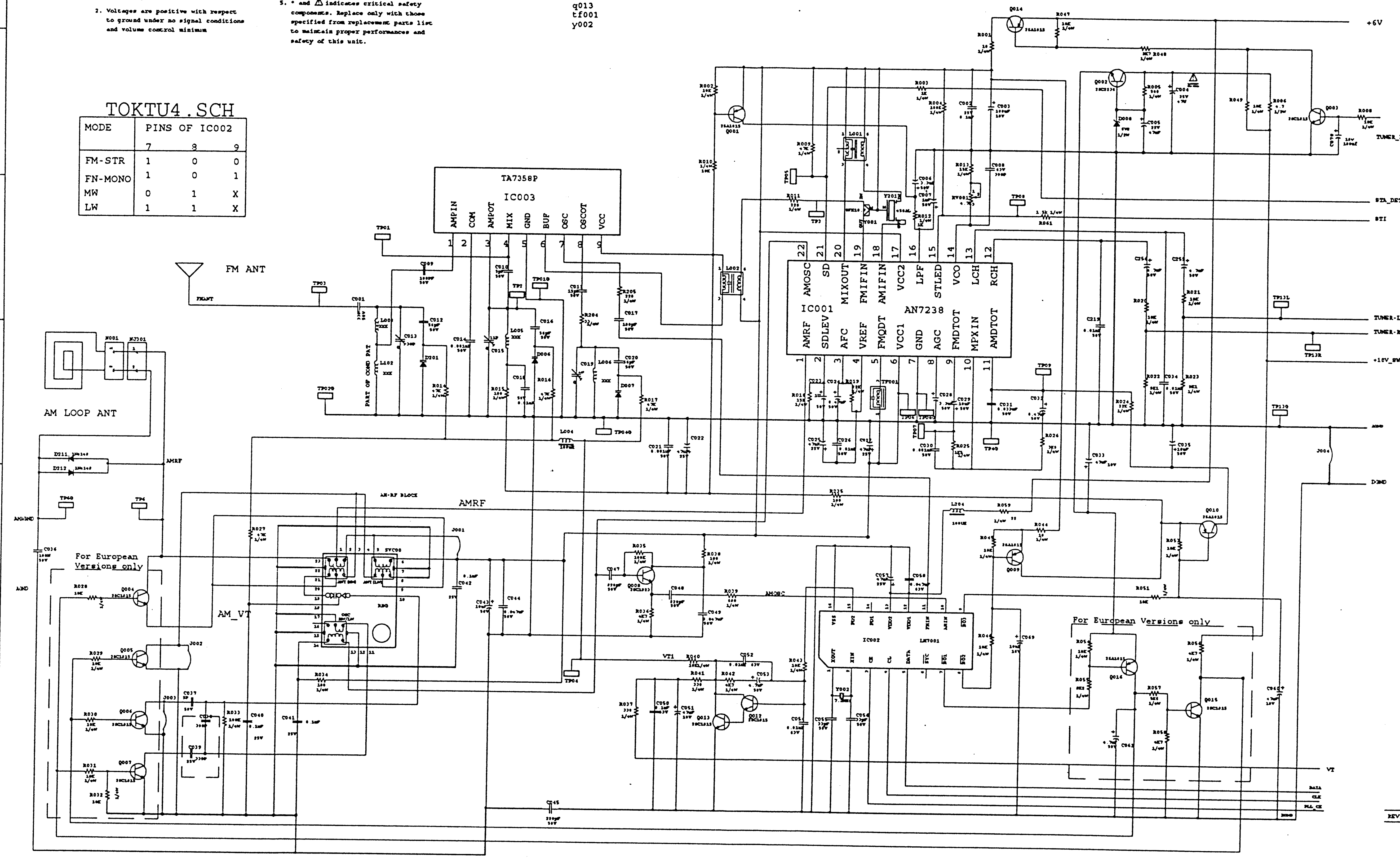
NOTES:

1. Unless otherwise specified:
   - A. All resistor values are in ohms, 1/4W
   - B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

LAST REF DESIG:	AVAILABLE:
c061	
d008	
l006	
q013	
tf001	
y002	

TOKTU4.SCH

MODE	PINS OF IC002		
	7	8	9
FM-STR	1	0	0
FN-MONO	1	0	1
MW	0	1	X
LW	1	1	X



TA7358P
IC003
AMPIN
COM
AMPOT
MIX
GND
BUF
OSC
OSCOT
VCC
FM ANT
FMANT
AM LOOP ANT
IC001
AN7238
AMOSC
SD
MIXOUT
FMIFIN
AMIFIN
VCC2
LPF
STLED
VCO
LCH
RCH
AMRF
SDLEV
AFC
VREF
FMQDT
VCC1
GND
AGC
FMDTOT
MPXIN
AMDTOT
IC002
LM7001
AM-RF BLOCK
AMRF
AM_VT
AMOSC
VT1
For European Versions only
For European Versions only
PART OF COND PAT
+6V
TUNER_PWR
STA_DET
STI
TUNER-L
TUNER-R
+10V_SW
AGND
DGND
VT
DATA
CLK
PLL_CE
AMGND
Q001
Q002
Q003
Q004
Q005
Q006
Q007
Q008
Q009
Q010
Q012
Q013
Q014
Q015
Q016

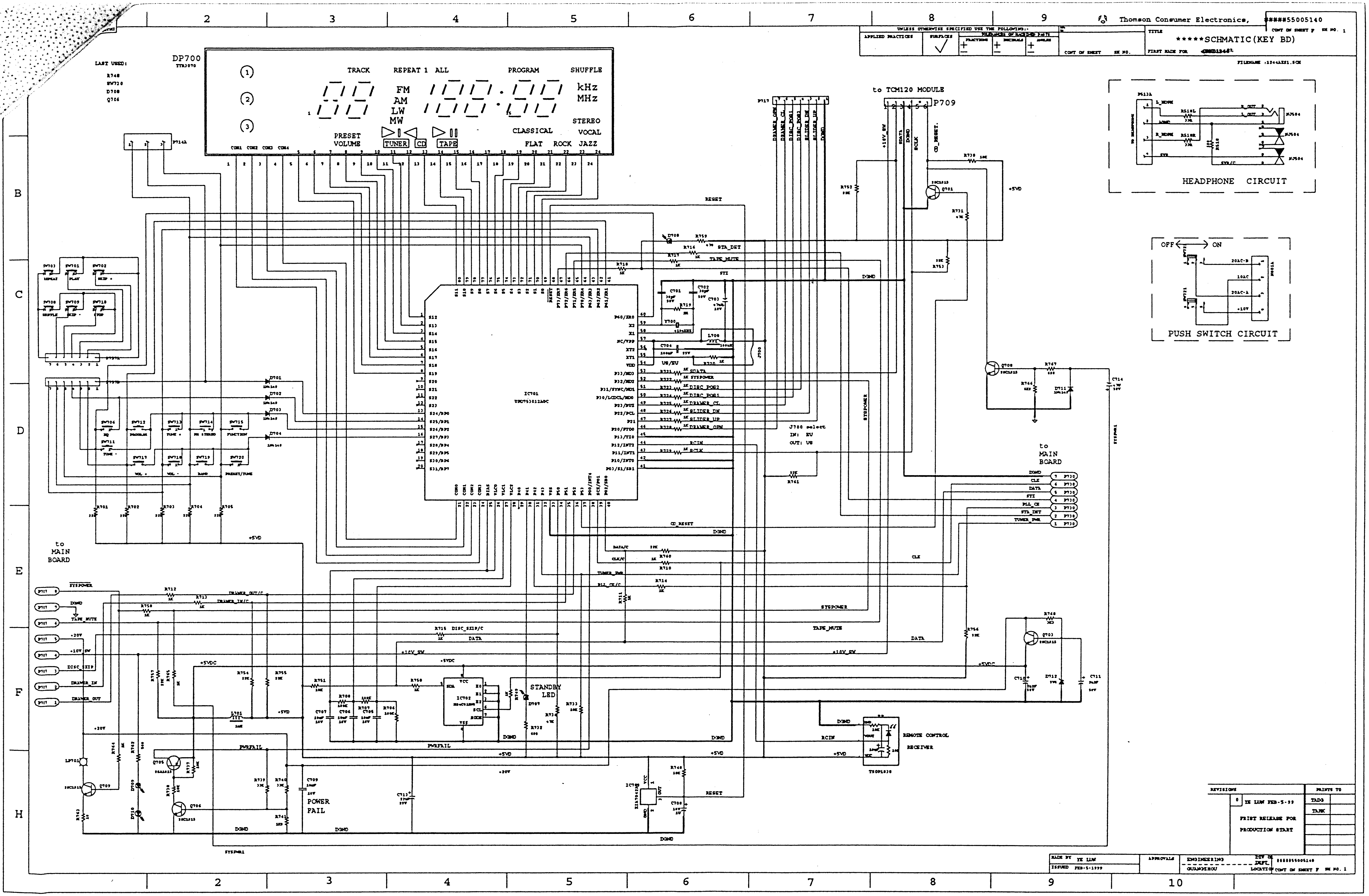
REVISIONS		PRINTS TO	
8	ZUO WEI FEB-5-99	TADG	
	FRIST RELEASE FOR PRODUCTION START	TANK	

MADE BY	ZUO WEI	APPROVALS	ENGINEERING	DIV OR DEPT.
ISSUED	28 NOV 98		GUANG ZHOU	LOCATION

#####55005150

CONT ON SHEET 2 SH NO. 1

01


DP700
TRACK
REPEAT 1 ALL
PROGRAM
SHUFFLE
FM
AM
LW
MW
kHz
MHz
STEREO
VOCAL
PRESET
VOLUME
TUNER
CD
TAPE
CLASSICAL
FLAT
ROCK
JAZZ
LAST USED:
R748
SW720
D708
Q706
P714A
SW703 REPEAT
SW701 PLAY
SW702 SKIP +
SW708 SHUFFLE
SW709 SKIP -
SW710 STOP
SW706 EQ
SW711 TUNE -
SW712 PROGRAM
SW713 TUNE +
SW714 FM STEREO
SW715 FUNCTION
SW717 VOL +
SW718 VOL -
SW719 BAND
SW720 PRESET/TUNE
D701
D702
D703
D704
R701
R702
R703
R704
R705
+5VD
IC701
UPD753012AGC
RESET
STA_DET
TAPE_MUTE
STI
DGND
Y700
L700
C701
C702
C703
C704
J700
J700 select
IN: EU
OUT: US
SDATA
SYSPOWER
DISC_POS2
DISC_POS1
DRAWER_CL
SLIDER_DN
SLIDER_UP
DRAWER_OPN
RCIN
SCLK
R761
P717
to TCM120 MODULE
P709
+10V_SW
SDATA
DGND
SCLK
CD_RESET
R730
R752
Q701
R731
R753
Q708
R767
R766
D711
C714
SYSPWR1
to MAIN BOARD
DGND
CLK
DATA
STI
PLL_CE
STA_DET
TUNER_PWR
P730
HEADPHONE CIRCUIT
P513A
L_HDPH
R518L
R518R
R_HDPH
R_OUT
L_OUT
SYS/C
HJ504
PUSH SWITCH CIRCUIT
OFF
ON
20AC-B
10AC
20AC-A
+10V
P601A
to MAIN BOARD
SYSPOWER
P707
DGND
TAPE_MUTE
+20V
+10V_SW
DISC_SKIP
DRAWER_IN
DRAWER_OUT
R712
R713
R758
DRAWER_OUT/C
DRAWER_IN/C
DATA/C
CLK/C
TUNER_PWR
PLL_CE/C
R760
R710
R714
R711
R715 DISC_SKIP/C
DATA
+5VDC
R757
R765
R754
R755
L701
+5VD
R751
R708
R707
R706
C707
C706
C705
R750
IC702
SDA
SCL
VCC
VSS
STANDBY LED
D707
R733
R734
R732
R756
R768
Q703
D712
C710
C711
REMOTE CONTROL RECEIVER
TSOP1838
RCIN
+5VD
LP701
Q709
R744
R742
D709
D710
Q705
R737
R736
Q706
R739
R740
R741
C709
PWRFAIL
POWER FAIL
C713
+20V
IC703
R748
C708
RESET
DGND
SYSPWR1
R743

Thomson Consumer Electronics, #####55005140

CONT ON SHEET F SH NO. 1

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APPLIED PRACTICES	SURFACES	FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

CONT ON SHEET SH NO.

TITLE *****SCHMATIC(KEY BD)

FIRST MADE FOR CMD1244

FILENAME :1244AXS1.SCH

REVISIONS

0 YE LUN FEB-5-99

FRIST RELEASE FOR PRODUCTION START

PRINTS TO

TADG

TAHK

MADE BY YE LUN

ISSUED FEB-5-1999

APPROVALS

ENGINEERING DIV OR DEPT.

GUANGZHOU LOCATION

888855005140

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Thomson Consumer Electronics, Inc.

#####55005160
CONT ON SHEET F SH NO. 1

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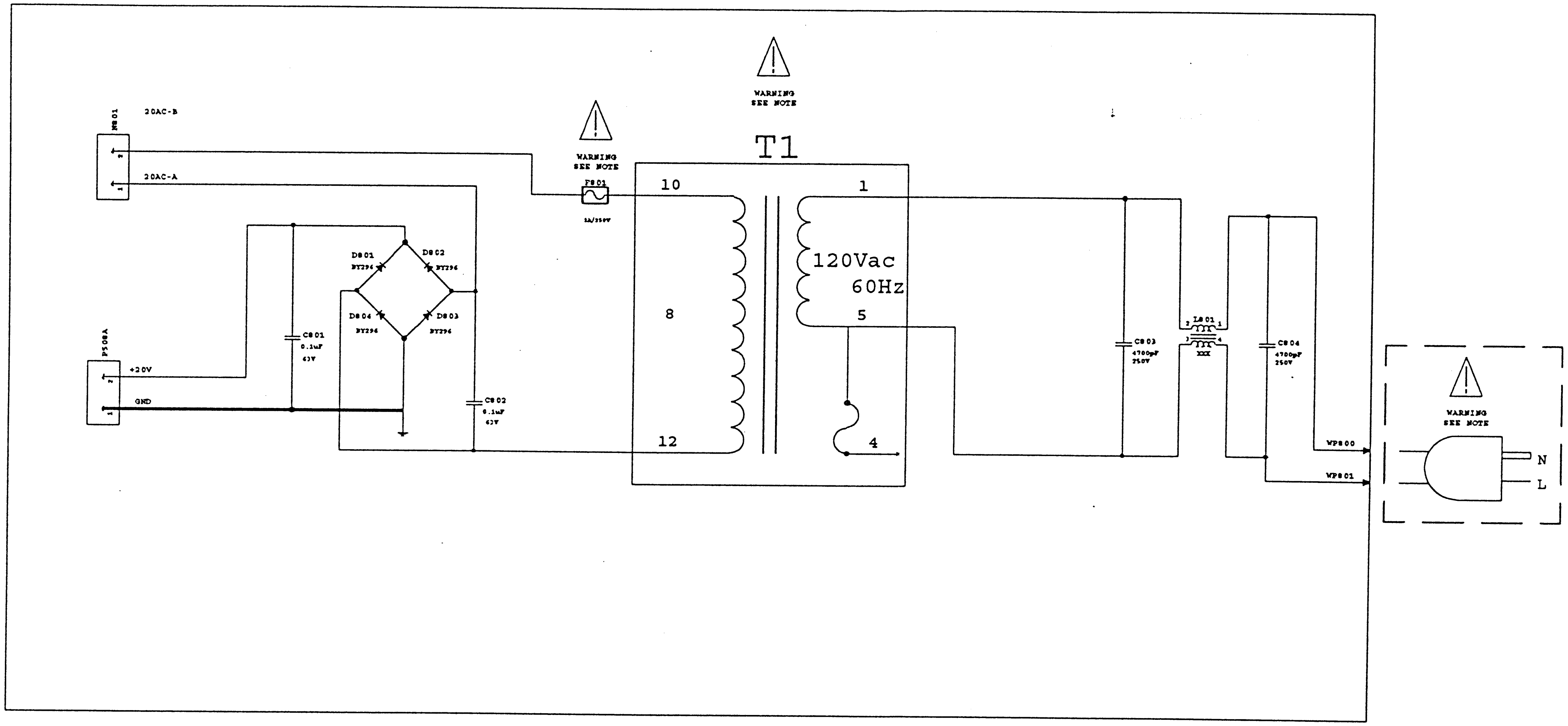
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED PARTS FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

TITLE
*****CRKD1244 POWER SCH

FIRST MADE FOR CRKD1244
DM#

FILENAME: 1244APS1.SCH


WARNING
SEE NOTE
T1
M801
20AC-B
20AC-A
WARNING
SEE NOTE
F801
1A/250V
10
1
120Vac
60Hz
8
5
12
4
D801
BY296
D802
BY296
D804
BY296
D803
BY296
C801
0.1uF
63V
C802
0.1uF
63V
P508A
+20V
GND
C803
4700pF
250V
L801
XXX
C804
4700pF
250V
WARNING
SEE NOTE
WP800
WP801
N
L

NOTES:

⚠
WARNING
SEE NOTE

COMPONENTS DESIGNATED BY THE SAFETY SYMBOL SHOULD, WHEN NECESSARY FOR REPAIR, BE REPLACED BY ORIGINAL PARTS, APPROVED BY THE MANUFACTURER. ONLY THEN CAN THE OPERATIONAL SAFETY BE GUARANTEED.

NOTE 2: N/C=NOT IN USE.

REVISIONS
0 YE LUN FEB-5-99
FRIST RELEASE FOR
PRODUCTION START

PRINTS TO

MADE BY YE LUN
ISSUED FEB-05-1999
APPROVALS
ENGINEERING DIV OR DEPT
GUANG ZHOU LOCATION
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01